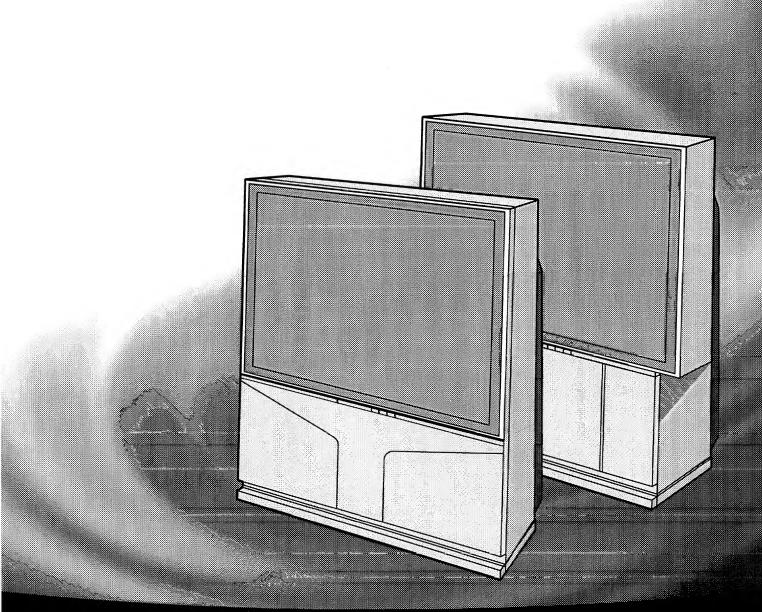
Projection Television

Instructions for use



Let's make things better.

PHILIPS

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

<u>Model</u> Registration

Returning your Warranty
Registration Card right away
guarantees you'll receive all
the information and special
offers which you qualify for as the
owner of your model.

Congratulations on your purchase, and welcome to the "family!"







Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products

available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction. All of this is our way of saying welcome—and thanks for investing in a PHILIPS product.

Sincerely,



Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these **Safety** symbols



This "bolt of lightning" indicates uninsulated material within your unit which may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

PHILIPS MAGNAVOX

Visit our World Wide Web Site at http://www.philipsmagnavox.com

SAFETY INSTRUCTIONS - Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- Read Instructions All the safety and operating instructions should be read before the appliance is operated.
- Retain Instructions The safety and operating instructions should be retained for future reference.
- Heed Warnings All warnings on the appliance and in the operating instructions should be adhered to.
- Follow Instructions All operating and use instructions should be followed.
- 5. Water and Moisture The appliance should not be used near water for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
- Carts and Stands The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

- Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 8. Ventilation The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- Power Sources The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- 11. Power-Cord Protection Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.

- 12. Cleaning The appliance should be cleaned only as recommended by the manufacturer.
- Power Lines An outdoor antenna should be located away from power lines.
- 14. Outdoor Antenna Grounding If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mats and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. below.

- 15. Non-use Periods The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time
- Object and Liquid Entry Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- Damage Requiring Service The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - Objects have fallen, or liquid has been spilled into the appliance; or
 - **C.** The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
- 18. Servicing The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

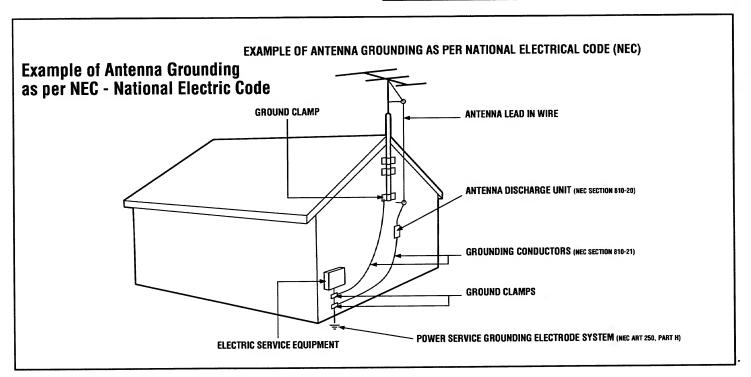


TABLE OF CONTENTS

Getting Started
Welcome/Product Registration2
Safety/Precautions3
Table of Contents4
Features, Model and Cabinet Information5
On-Screen Features
PICTURE MENU ————
♦Adjusting Color, Brightness, Sharpness,Tint, and Picture Controls6
♦Using the Clearview Control7
♦ Adjusting the TV's Convergence Control8
♦Using the Flesh Correction Control9
FEATURES MENU
♦ Selecting a Picture Source10
♦Setting the TV for Closed Captioning11
♦Setting the TV for Cable or Antenna Signals12
♦ Adding Channels in Memory (Automatically) .13
♦Adding Channels in Memory (Manually)14
♦Setting the TV Clock15
♦Turn-On Timer16
♦Using the Sleep Timer Control17
♦ Adjusting the Channel Display Control18
♦Using the Time/Channel Reminder Control18
♦Using Parental Control to Censor Channels 19-20
♦Using the Channel Label Control21
♦Using the Language Selection Control22
SOUND MENU ————
♦ Adjusting Bass, Treble, and Balance Sound Controls
♦ Setting the Bass Boost Control23
♦ Setting the TV for Stereo and SAP Programs24
♦Using the Incredible Stereo Control25
♦Using the Volume Display Control25
♦Using the TV Speaker On/Off Control with the Audio Output jacks26
♦Surround Sound Speaker Connections and
Variable Audio Output Control27
Output Jacks28-31

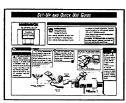
Because of continuous product improvements, the information mentioned in the documents accompanying your product are subject to change without notice.

	Remote Control Operation				
==	Setting the Smart Picture Control32-33				
	Using the AVL and Smart Sound Control34				
Using t	Using the Smart Surf Control35				
Setting the Remote to Work VCRs36-37					
Setting the Remote to Work Cable TV Converters38-39					
Setting the Remote to Work VCRs or Cable Converters - "Search Method"40					
Using the Remote's VCR buttons41					
<u>Picture-In-Picture (PIP)</u>					
	How to Use PIP (Connections)42-43				
	How to Use PIP with the TV Remote44				
Selecting the Picture Source for PIP45					
Adjusting Picture-in-Picture Color and Tint46					
More PIP Connections (Cable Converter)47					
General Information					
	TV Help Menu48				
	Tips if Something Isn't Working49				
Glossary of TV Terms50					
Index	51				
Factory Service Locations52-53					
Warranty56					

SET-UP AND QUICK USE GUIDE

Use the simple Set-Up Guide (supplied with your TV information packet) for details on:

- Antenna Hook-ups
- First Time Set-Up (Automatic Settings)
- Basic TV and Remote Control Operation
- On-Screen Menu Use



NOTE: This owner's manual is used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television set. This is normal and does not require you contacting your dealer or requesting service.

FEATURES



First Time Set Up - automatically sets the TV for local channels, the correct picture signal (antenna or cable), and assists in the setting of TV's Smart Clock feature.

Infrared Remote Control - operates your TV set and a variety of wireless remote control VCRs and Cable TV Converters.

Standard TV broadcast (VHF/UHF) or Cable TV (CATV) channel capability.

Closed Captioning - allows the viewer to read TV program dialogue or voice conversations as on-screen text

Automatic Programming of channels - for quick and easy selection of favorite stations available in your area.

Picture-In-Picture (PIP) - can show a TV program and the direct video output from an accessory (VCR, etc.) onto the TV screen at the same time.

Parental Control for "Censoring" - this feature can block out channels to keep children from watching undesirable programming.

Stereo-TV - with a built-in audio amplifier and a twin speaker system, reception of TV programs in both broadcast stereo sound or (SAP) bilingual broadcast are available.

Twin Antenna (A/B) Inputs - for easy displaying of two separate signal sources on the TV. An A/B button on the remote control switches the TV's Main screen between the two Antenna (A & B) Input options.

Audio/Video Jacks - for direct connections with VCRs (and other accessories) for quality TV picture and sound playback.

Surround Sound - this TV set contains external; audio speaker connections for a more dynamic sound effect.

Sleep-Timer - automatically turns the TV OFF at preset time intervals.

Smart Button - for the control of TV Sound and the Picture levels. Use the Smart Button on the remote to quickly adjust Smart Sound (to set TV Volume levels during program changes or commercial breaks); Smart Picture (for programmed video video level adjustments on a variety of program sources); and Smart Surf (for quick one button channel selection of up to 10 of your favorite channels).

As you unpack your TV please note that the following items have been included with your set:

- · Owner's Manual
 - Safety Tip Information
 - Factory Service Center Locations
- · Warranty Registration Card
- Remote Control Transmitter
- Batteries for Remote Control Use

Please take a few minutes to complete your registration card. The serial number for the TV is on the back of the set.

Refer to the back of this manual for instructions on the cleaning and care of the TV.

End-of-Life disposal

Your new projection television and its packaging contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts which need to be properly disposed.

Your product also uses batteries which should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.

Please find out about the local regulations on how to dispose of your old television, batteries, and packaging materials whenever you replace existing equipment.

PICTURE MENU CONTROL ADJUSTMENTS

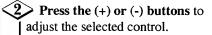
COLOR, BRIGHTNESS, SHARPNESS, TINT, PICTURE

To adjust your TV color and picture controls, select a TV channel and follow the steps shown below:

BEGIN

Select BRIGHTNESS,
PICTURE, COLOR, TINT, or
SHARPNESS picture control.

With the PICTURE MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.



3 Press the STATUS button to clear the screen.



SMART HELP

Remember. When the bar scale is centered, control settings are at normal mid-range levels.

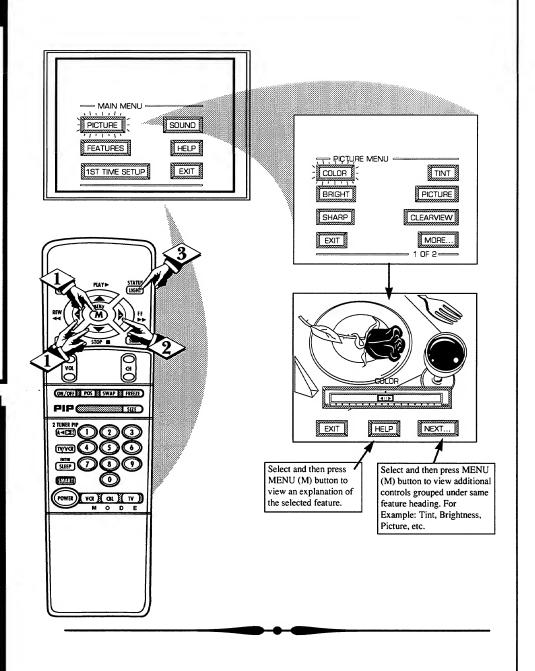
BRIGHTNESS Press (-) **or** (+) until dark parts of the picture show good detail.

<u>PICTURE</u> Press (-) or (+) until whitest parts of the picture are as bright as you prefer.

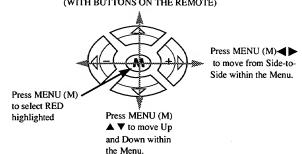
<u>COLOR</u> Press (-) or (+) to add or eliminate color.

TINT Press (-) or (+) to obtain natural skin tones. (Also see Flesh Correction on page 9 for more information).

<u>SHARPNESS</u> Press (-) or (+) to improve detail in the picture.



HOW TO SELECT FEATURES (WITH BUTTONS ON THE REMOTE)



CLEARVIEW

Clearview is a sharpness feature which smoothes out background snow (or picture noise) without losing picture image detail or crispness.

BEGIN

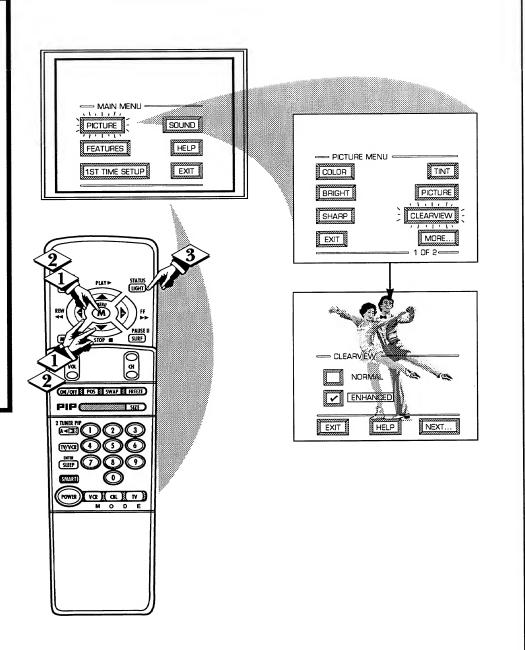
Select CLEARVIEW control.

With the PICTURE MENU on screen, move the RED highlight with the MENU (M) (buttons. Then press the MENU button.

2 Press the MENU ▲▼ buttons
to move the RED highlight. Press
the MENU button to select () the
ENHANCED mode.

Press the STATUS button to clear the screen.





RED/BLUE CONVERGENCE

Convergence is the correct lining up of the red and blue light paths on the TV screen.

NOTE: If no color fringing (see Smart Help) shows, then no Convergence adjustments are necessary for your TV.

(BEGIN)

Select CONVERGENCE control.

With PICTURE MENU (2 of 2) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

- 2 If there is RED or BLUE color fringing on the White cross, press the MENU button to continue.
- TV screen.

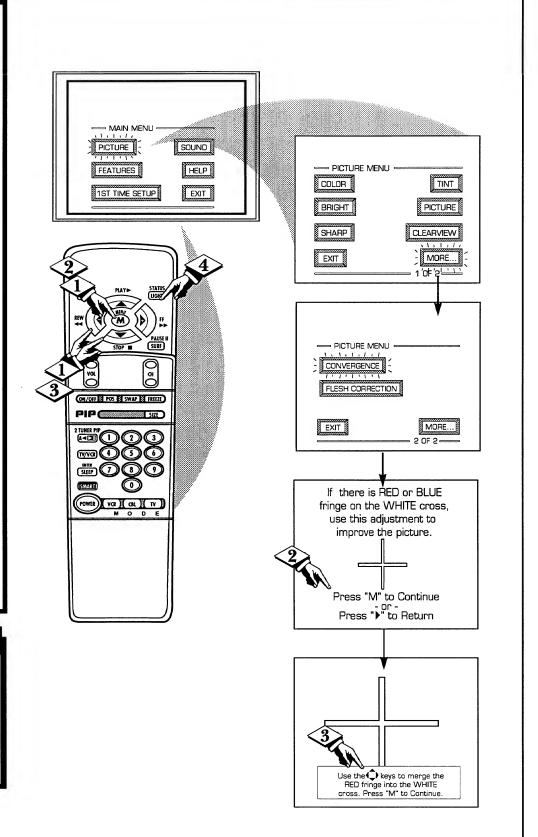
The red or blue cross is properly adjusted when it is completely merged with the white cross. (No color appears around the edge of the white cross).

Press the STATUS button to clear the screen when convergence adjustments are complete.



SMART HELP

Remember. Convergence has been set at the factory for best viewing, but if one or more of the (red or blue) colors appear around the edges of objects (color fringing) follow the steps given in this section.



FLESH CORRECTION

Use the Flesh Correction control to keep skin tone hues (or facial tint) from varying from TV channel to TV channel.

(BEGIN)

1 Select FLESH | CORRECTION control.

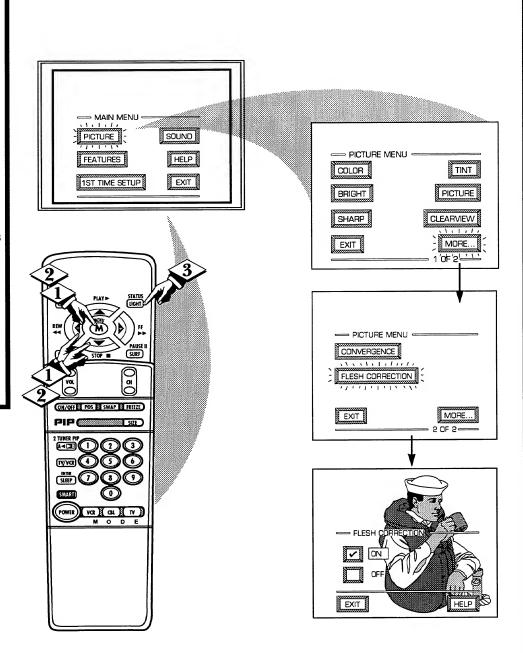
With PICTURE MENU (2 of 2) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

2 Press the MENU ▲▼ buttons to move the RED highlight. Press the MENU button to turn (▶) the FLESH CORRECTION control ON.

Press the STATUS button to clear the screen.





FEATURE MENU CONTROL ADJUSTMENTS

PICTURE SOURCE

The picture for the TV can come through either the ANTENNA plug or the AUDIO/VIDEO INput jacks (on the rear of the TV). The Picture Source control simply tells the TV which one of these picture sources it is to show on the TV screen.

Select PICTURE SOURCE SELECT control.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU ▲▼ buttons to move the RED highlight. Press the MENU button to turn the desired PICTURE SOURCE control ON ().

ANT A or B- for a picture signal coming from either the ANT(enna) A or B Input plugs on the TV.

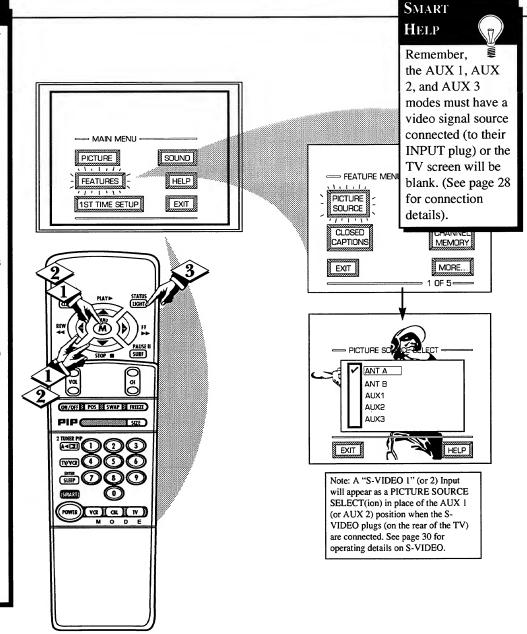
AUX 1- for a picture signal coming from the AUX 1 Video Input jack on the rear of the TV.

AUX 2- for a picture signal coming from the AUX 2 Video Input jack on the rear of the TV.

AUX 3- for a picture signal coming from the Video Input jack on the front of the TV.

3 Press the STATUS button to l clear the screen.





CLOSED CAPTION

Closed Captioning (CC) allows
you to read the voice content of
television programs on the TV
screen. Designed to help the hearing
impaired this feature uses on-screen
"text boxes" to show dialogue and
conversations while the TV program
is in progress.

(BEGIN)

Select CLOSED CAPTIONING control.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU ▲▼ buttons
to move the RED highlight. Press
the MENU button to select () the
desired Closed Caption mode - For
Example: "ALWAYS ON" and
"CAPTION 1".

CAPTION 1, 2, 3, 4:

dialogue (and descriptions) for the action on the captioned TV program shows on-screen. (See Important Note on this page.)

TEXT 1, 2, 3, 4:

often used for channel guide, schedules, or bulletin board information for CC programs.

3 After making your Caption mode selection, press the **STATUS** button to clear the TV screen. The selected Closed Caption mode will be active.

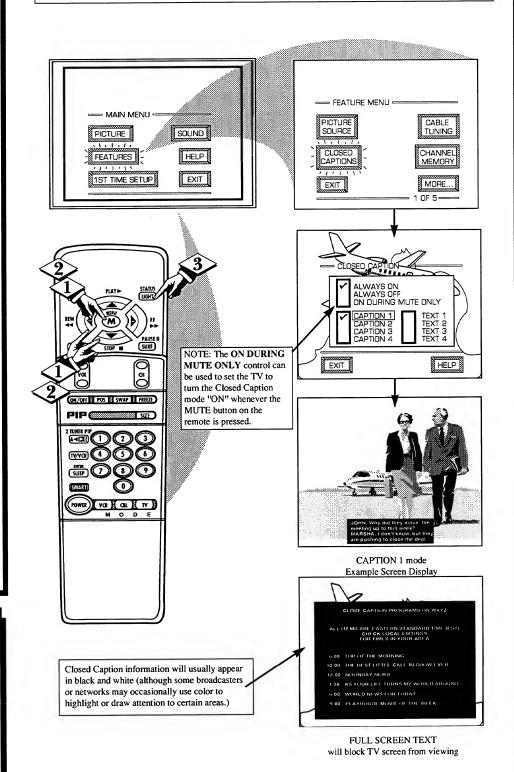
To cancel, set the Closed Captioned feature to OFF when finished.



SMART HELP

Remember. Broadcast stations will often use spelling abbreviations, symbols, dropouts and other grammatical shortcuts in order to keep pace with the on-screen action. These type factors vary upon the source of the captioned text material and do not indicate a need for service on the part of the TV.

NOTE: Not all TV programs and product commercials are made for broadcast with Closed Caption (CC) information included. Neither are all Closed Caption modes (CAPTION 1-4; or TEXT 1-4) necessarily being used by a broadcast station during the transmission of a closed caption program. Usually "CAPTION 1" is the most used mode to view captioned material. Refer to your area's TV program listings for the stations and times of Closed Caption shows.



CABLE TUNING

You need to make sure the TV is set to pick up either Cable TV or Antenna signals. In other words, the TV needs to know if you connected a Cable TV signal or a normal antenna to its ANTENNA plug.

NOTE: If you went through First Time Setup (in your Quick Use Guide), this task has already been completed for you.

(BEGIN)

Select CABLE CHANNEL TUNING control.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU ▲▼ buttons
to move the RED highlight. Press
the MENU button to select () the
desired mode - For Example:
CABLE.

CABLE- If you DO have Cable TV connected

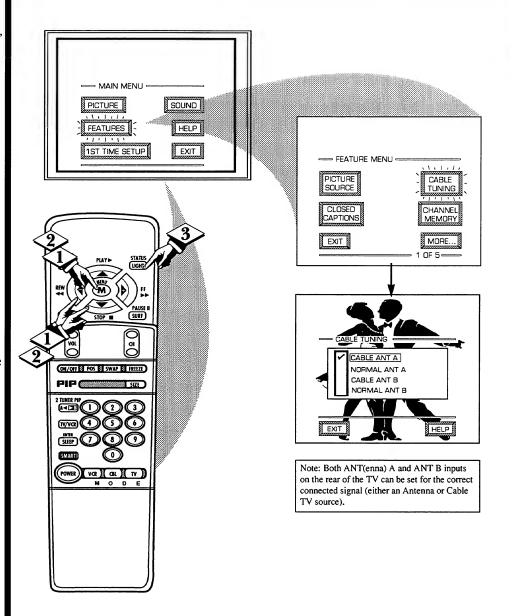
to the TV. Channels 1-125 available.

NORMAL- If you have an
Antenna connected

to the TV. Channels 2-69 available.

3 Press the STATUS button to clear the screen.





CHANNEL MEMORY

AUTO-PROGRAMMING

Your TV can automatically set itself for local area (or Cable TV) channels. This makes it easy for you to select only the TV stations in your area when the CHANNEL ▲▼ buttons are pressed.

NOTE: If you went through First Time Setup (in your Quick Use Guide), this task has already been completed for you.

BEGIN

Select CHANNEL MEMORY
(START AUTO-PROGRAMMING)
control.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU button to turn AUTO-PROGRAMMING ON .

The TV shows which channel numbers are "SAVED" () as they are added into memory.

"Auto-programming CHANNEL MEMORY is finished" shows when the TV is through adding channels.

Press the STATUS or Menu (M) button to clear the screen.



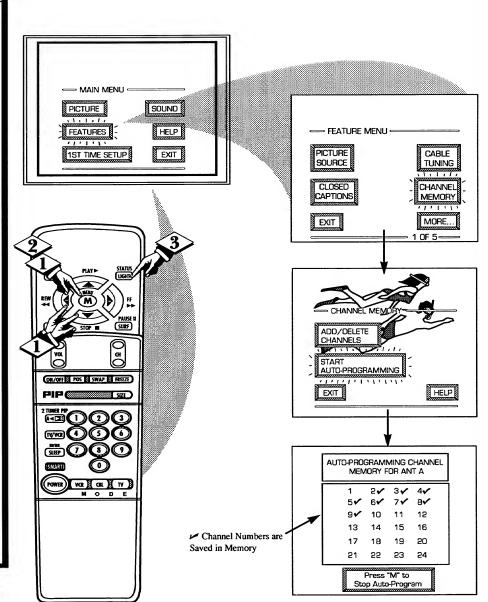
SMART HELP

Try it out. Press the CHANNEL ■ buttons

and see which channels you can select.

Remember, an Antenna or Cable TV signal must first be connected to your TV so that channels can be saved.

If you want to delete any unwanted channels from the TV's memory, see "ADD/DELETE CHANNELS" on the next page.



ADD/DELETE CHANNELS

A uto-Programming (see previous page) adds all the channels it can find (on your Antenna or Cable TV system) into the TV's memory. Add/Delete Channels makes it easy for you to add other channels, or drop unwanted channels, from the list of channels in the TV's memory.

(BEGIN)

Select CHANNEL MEMORY
(ADD/DELETE CHANNELS)
control.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the CHANNEL ▲▼ or number buttons to select the channel you want to add or delete.

3 Press the MENU ▶ button to ADD the channel into the TV's memory.

Press the MENU ◀ button to DELETE the channel from memory.

Repeat steps 2 and 3 for each channel you wish to add or delete.

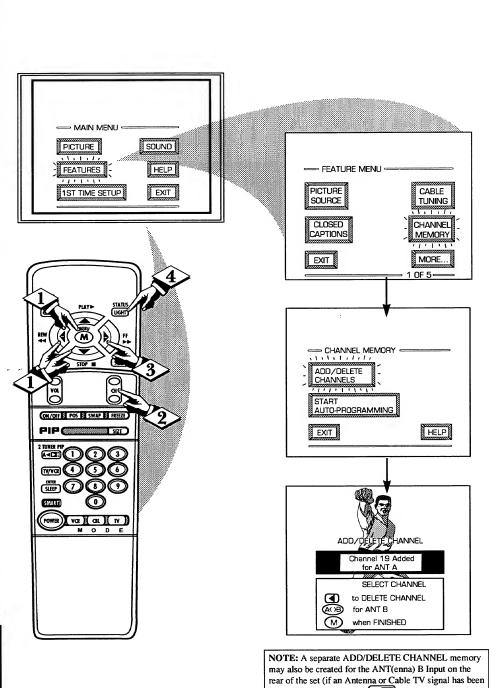
4 Press the STATUS or MENU button to clear the screen when through.



SMART HELP

Remember. You can also add the AUX 1, AUX 2, or AUX 3 modes just like a channel. Then by pressing the CHANNEL buttons the AUX(iliary) mode can quickly be selected to use the desired set of Input jacks on the TV (see page 28).

Note: AUX 1, AUX 2, and AUX 3 modes are located between the lowest and highest channel numbers within the ADD/DELETE CHANNEL control screen.



NOTE: A separate ADD/DELETE CHANNEL memory may also be created for the ANT(enna) B Input on the rear of the set (if an Antenna or Cable TV signal has been connected). Just press the A=B button on the remote, while in the ADD/DELETE CHANNEL mode, to switch between the ANT A and ANT B channel memory lists. Then follow steps 2 and 3 as shown to the left to add or delete the desired channels.

SET CLOCK

Your TV comes with an onscreen clock. During normal operation the clock appears on the screen with every channel change (and when the STATUS button is pressed).

NOTE: If you went through First Time Setup (in your Quick Use Guide), this task has already been completed for you.

BEGIN

Select SET CLOCK control.

With FEATURES MENU (2 of 5) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

Press the remote's number buttons to set the time clock.

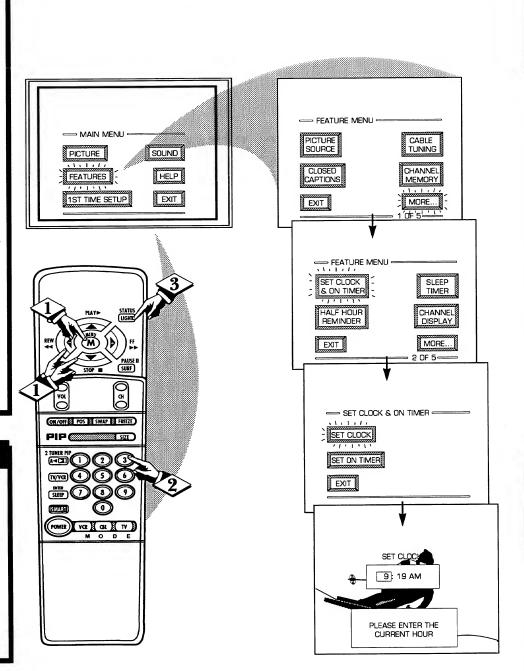
3 Press the STATUS button to set the clock in operation and clear the screen.

SMART HELP

Remember, be sure to press "0" first and then the hour number for single digit entries.

The remote's MENU (M) buttons can also be used to set the hours, minutes and AM/PM portions of the clock.

TV Clock settings may be lost when the TV is unplugged (or AC power to the set is interrupted.)



SET ON TIMER

Just like an alarm clock you can set the TV to turn itself on at the same time everyday.

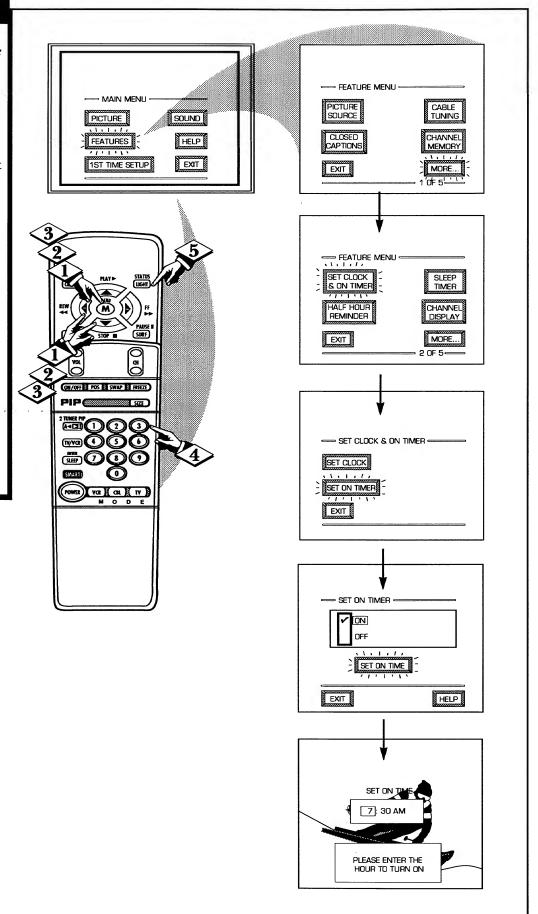
BEGIN

Select SET ON TIMER control.

With FEATURES MENU (2 of 5) on screen, move the RED highlight with the MENU (M) • buttons.

Then press the MENU button.

- 2 Press the MENU ▲▼ and MENU (M) buttons to highlight and select "ON" ().
- Press the MENU ▲▼ and then the MENU (M) buttons to select "SET ON TIME".
- Press the remote's number
 buttons to set the "TURN ON"
 time for the TV. (Press MENU ▲
 ▼ for AM or PM.)
- Set the "ON TIME" and clear the screen.



SLEEP TIMER

Have you ever fallen asleep in front of the TV only to have it wake you up at two in the morning with a test pattern screeching in your ears? Well, your TV can save you all that trouble by automatically turning itself off.

(BEGIN)

Press the SLEEP button on the remote control.

Note: you can also select the SLEEP control with the TV's onscreen FEATURES MENU (2 of 5). Move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the SLEEP button
repeatedly to pick the amount of time (15 minutes to 2 hours ahead) before the TV will turn itself off.

The (+), (-) buttons can also be used to set the amount of time.

Press the STATUS or MENU
(M) button to clear the screen after you have set the time for the TV to turn off.

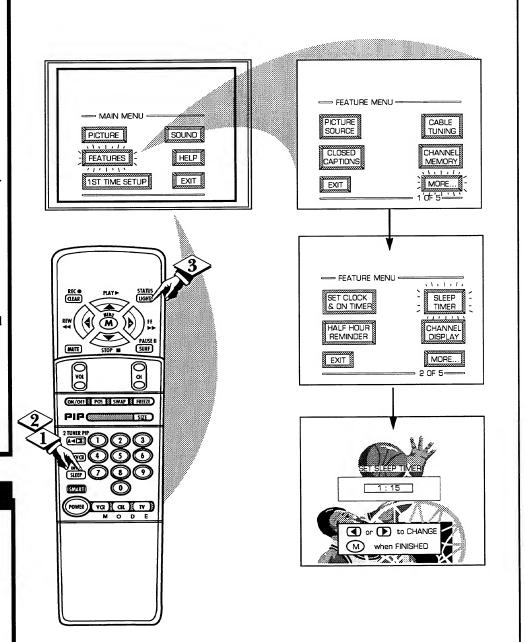


SMART HELP

Remember, to see how many minutes are left before the TV shuts itself off, reselect the SLEEP TIMER control screen.

To stop a SLEEP TIMER setting, reset the timer back to OFF. (Turning the TV off and on, or pressing a button during the last minute of a timer setting, will also cancel a setting.)

A few seconds before the TV is to shut off a message will come on the screen telling you *GOOD NIGHT*.



CHANNEL DISPLAY

With the Channel Display control you can change the size and location of the on screen channel and clock information.

(BEGIN)

Select CHANNEL DISPLAY control.

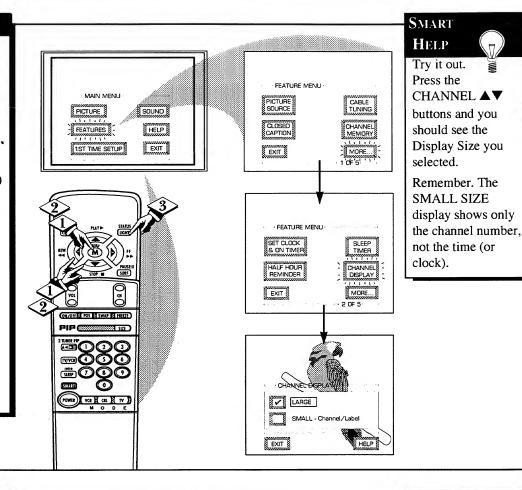
With FEATURES MENU (2 of 5) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU ▲▼ and

MENU (M) buttons to highlight
and select (✓) the LARGE or
SMALL display control.

3 Press the STATUS button to lear the screen.





HALF HOUR REMINDER

With the Half Hour Reminder control the TV automatically shows you the current time and channel every thirty minutes.

(BEGIN)

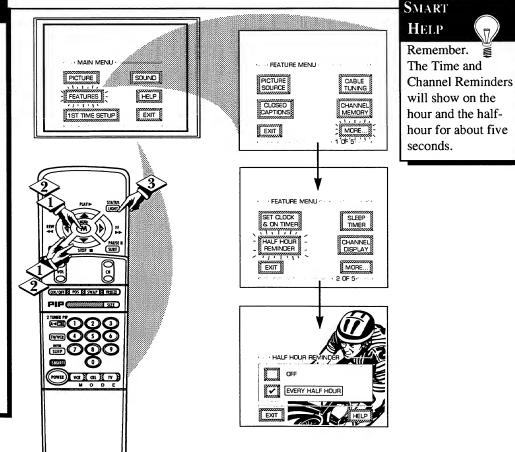
Select HALF HOUR REMINDER control.

With FEATURES MENU (2 of 5) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

2 Press the MENU ▲▼ and MENU (M) buttons to highlight and select (✓) the EVERY HALF HOUR item.

Press the STATUS button to clear the screen.





PARENTAL CONTROL

Parental Control allows parents to block out, or "censor", any channels they think children should not watch. A channel placed under Parental Control cannot be viewed until a correct access code is used to unlock the channel for viewing.

First let's set your Parental Code:

(BEGIN)

Select the PARENTAL CONTROL.

With FEATURES MENU (3 of 4) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

"BLOCK CHANNELS" and "SETUP CODE" show on screen.

2 Press the MENU ▲▼ and MENU (M) buttons to highlight and select the SETUP CODE item.

Press 0, 7, 1, 1 on the remote.

"XXXX" shows on the ACCESS

CODE SETUP screen as you press the number buttons.

"INCORRECT ACCESS CODE - TRY AGAIN" will also show on the screen.

Press 0, 7, 1, 1 on the remote again.

"Next Enter Your New Access Code" shows on the screen.

5 Enter a new four digit number code using the remote.

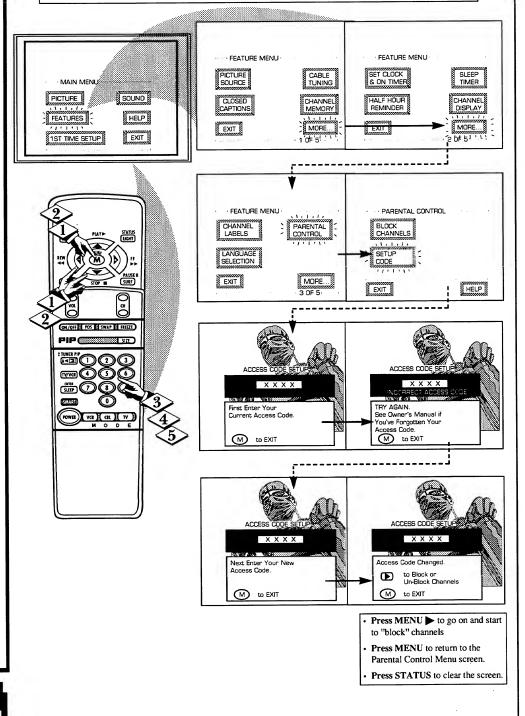
"Access Code Changed" shows on the screen to let you know the new code has been set.

Continue to the next page to find out how to "block" channels from viewing.

SMART HELP

Parents - it isn't possible to unlock or defeat your
Censor Code without changing to a new code number. So if your
Code number changes, and you didn't change it yourself, then you will know that someone has altered the code and the blanked out channel has been viewed.

NOTE: Your TV left the factory with the Parental Code set to "0000". If you are using your TV and the Parental Control for the first time, and don't want to SETUP a new Access code number, you can use the "0000" number to block channels - see next page. The "0711" Parental Code (shown on this page) is given as a default or way to reset the Code when the current Access number is not known.



PARENTAL CONTROL

A fter your personal Parental Code number has been set (see previous page), you are now ready to select the channels you want to block out or censor.

(BEGIN)

1 Select the BLOCK CHANNELS control.

With FEATURES MENU (3 of 5) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

- Press the MENU ▲▼ and MENU (M) buttons to highlight and select the BLOCK CHANNELS item.
- 3 Enter the correct Parental Code number.
- Press Channel ▲▼ or Channel

 Number buttons to select the channel you want to block.
- Fress the MENU ▶ button to

 "BLOCK VIEWING" on the
 selected channel.

 Press the MENU ◀ button to

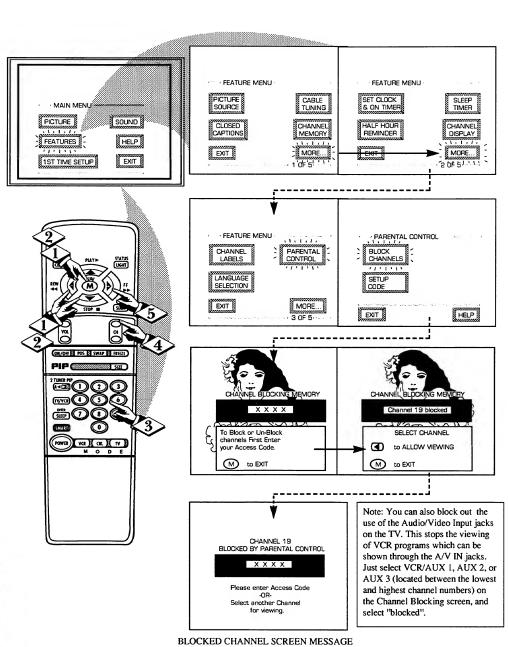
 "ALLOW VIEWING" on a
 blocked channel.

Repeat steps 3 and 4 for any other channels you wish to block out.



SMART HELP

Remember, once set
Parental Control blocks out
the selected channel number on
both the ANT A and ANT B
channel rings. Also, to make TV
viewing easier all channels (for
both ANT A/B and Audio/Video
Input jacks) will be unblocked,
once the correct Parental Code
number has been entered.
When the TV is turned OFF and
then back ON again, is when
Parental Control is back in place
for all blocked out channels.



BLOCKED CHANNEL SCREEN MESSAGI (Appears when an attempt to select a blocked channel is made and Parental Control is ON.)

CHANNEL LABELS

o you ever have trouble remembering on which channel a particular station or network is located? The Channel Labels Control is a quick way to view and select channels from a list of Labeled channels.

A Label is a four letter callout you can set to appear with the on screen channel number. Example Label: WXYZ - for a TV station's call letters.

To select channels from the Channel Labels Control:

(BEGIN)

- < With the FEATURE MENU screen (3 of 5) on the TV's screen, move the RED highlight using the MENU (M) buttons to select CHANNEL LABELS. Press the MENU (M) button.
- **2** Press the MENU **▲▼** and MENU (M) buttons to highlight and select either:

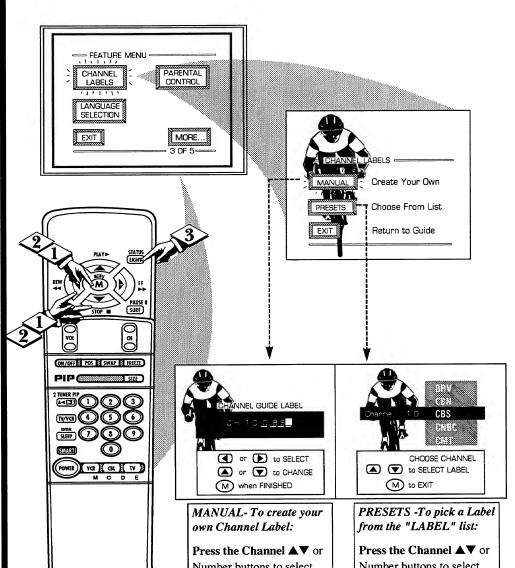
"MANUAL" to create your own label for a channel.

"PRESETS" to choose from a list of prewritten channel labels.

(See instruction details on this

> Press the STATUS button to clear the screen.





Number buttons to select desired station.

A red highlight shows the active letter space for the channel label.

Press the MENU ▲ ▼

buttons to pick any of the letters or symbols that are given for your use.

Press the MENU ◀ ▶ buttons to move the red highlight to the other letter spaces and repeat.

Press the STATUS button to clear the screen when finished.

Number buttons to select desired station.

Press the MENU ▲▼ buttons to move up and down the Channel Label

Just stop on any label you might want to use.

The selected label automatically appears with channel changes and when the STATUS button is pressed.

Press the STATUS button to clear the screen when finished.

LANGUAGE

Note: If you went through First Time Setup, This task has already been completed for you.

For our Spanish and French speaking TV owners an on-screen LANGUAGE option is present. With the LANGUAGE control you can set the TV's on-screen features to be shown in either English, Spanish or French.

(BEGIN)

Select the LANGUAGE
DISPLAY control.

With FEATURES MENU (3 of 5) on screen, move the RED highlight with the MENU buttons. Then press the MENU (M) button.

Press the MENU ▲▼ and
MENU (M) buttons to highlight
and select () English, Spanish
(ESPANOL), or French
(FRANCAIS) on the display
control.

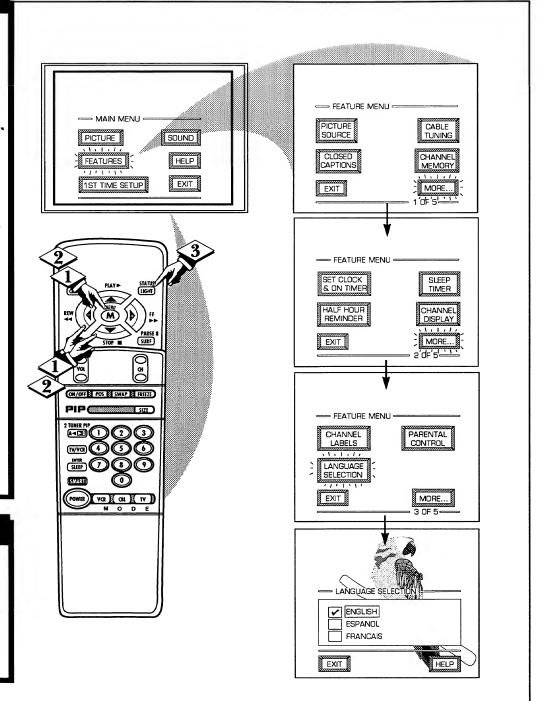
Text for the on-screen Menu will change to the selected language.

3 Press the STATUS button to clear the screen.



SMART HELP

Remember, the
Language control only
makes the TV's on-screen
(MENU) items appear in English,
Spanish, or French text. It does not
change the other on-screen text
features such as Closed Captioned
(CC) TV shows.



SOUND MENU CONTROL ADJUSTMENTS

BASS, TREBLE, BALANCE

Your TV also has individual sound adjustment controls. The BASS (low frequency), TREBLE (high frequency), and Speaker BALANCE may all be used to adjust the sound playback of TV programs.

(BEGIN)

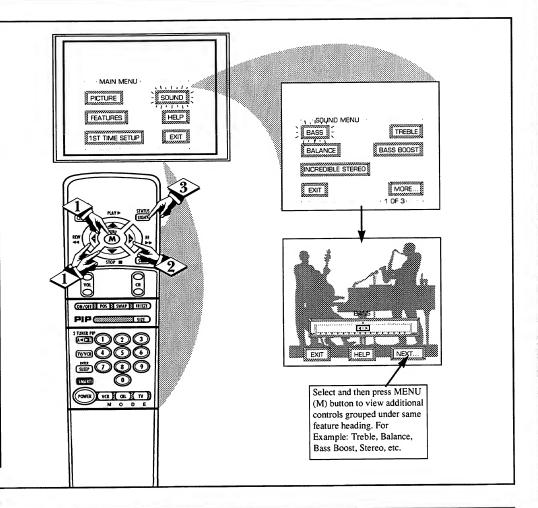
Select BASS, or TREBLE, or BALANCE sound control.

With the SOUND MENU on the screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the (+) or (-) buttons to adjust the sound control to levels you prefer.

3 Press the STATUS button to clear the screen.





BASS BOOST

The BASS BOOST control increases the low frequency audio range of the TV. This creates a deeper, fuller playback sound which can be heard through the TV's speakers.

(BEGIN)

Select BASS BOOST sound control.

With the SOUND MENU on the screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

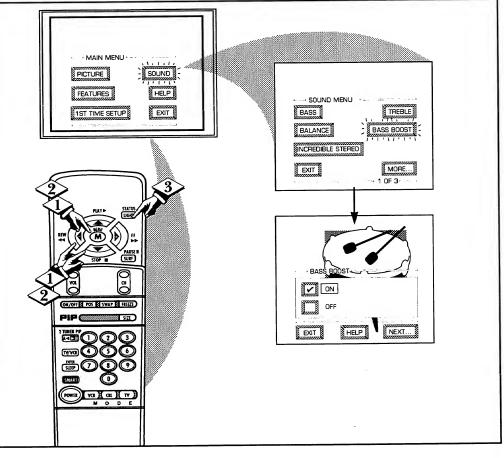
Press the MENU ▲▼ and

MENU (M) buttons to highlight
and turn ON () the BASS

BOOST control.

Press the STATUS button to clear the screen.





SOUND MENU CONTROLS (CONTINUED)

STEREO

Your TV is able to receive broadcast stereo TV programs. The TV is equipped with an amplifier and twin speaker system through which the stereo sound can be heard.

A RED stereo light (on the front of the TV) will come on when a stereo broadcast is received.

(BEGIN)

1 Select STEREO sound control.

With the SOUND MENU on the screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU ▲▼ and
MENU (M) buttons to highlight
and turn ON () the STEREO
mode.

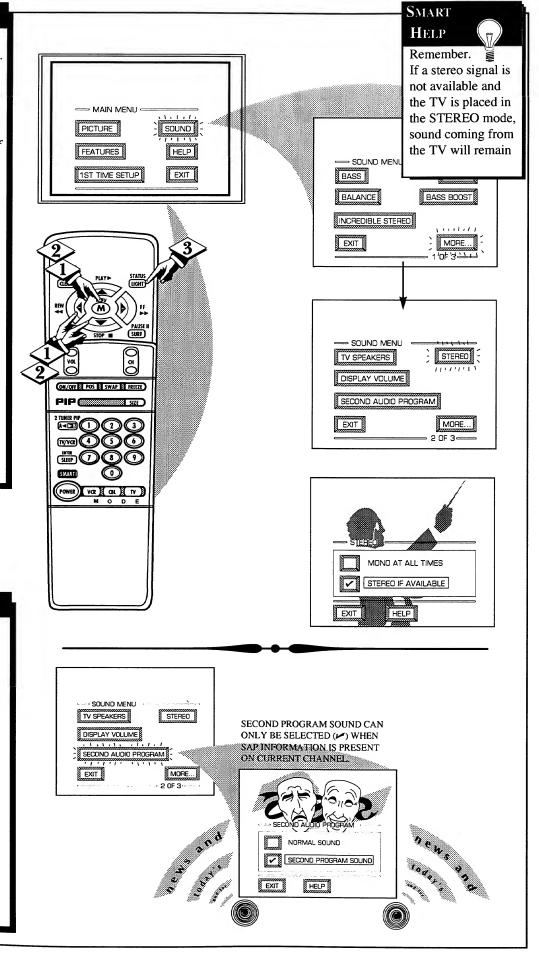
Press the STATUS button to clear the screen.



SECOND AUDIO PROGRAM

Second Audio Program (SAP) is part of the stereo broadcast system. Sent as a additional audio channel SAP can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes, but many experts believe it will be used for foreign language translations of TV shows (or for weather and news bulletins.)

NOTE: If a SAP signal is not present with a selected program, the SAP option can not be selected. "This program does not contain SAP information" will show on the TV screen.



SOUND MENU CONTROLS (CONTINUED)

INCREDIBLE STEREO

The Incredible Stereo control can be used to add greater depth and dimension to both monaural (MONO) and STEREO TV sound.

(BEGIN)

Select INCREDIBLE STEREO control.

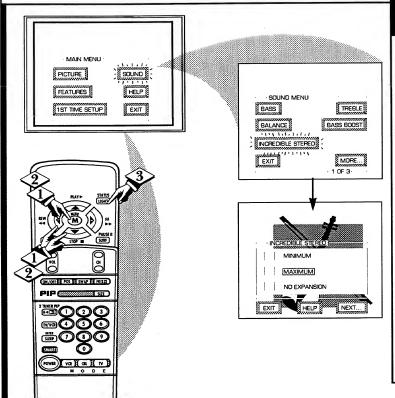
With the SOUND MENU on the screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU ▲▼ and
MENU (M) buttons to highlight
and turn ON () the
INCREDIBLE STEREO mode.

For Example: "MAXIMUM" spreads the Incredible Stereo effect as wide as possible.

3 Press the STATUS button to clear the screen.





SMART HELP



Remember, with the Incredible Stereo control turned ON even monaural (mono) audio source material can be heard through rear Surround Sound speaker connections (see page 27). Note: The monaural version of Surround Sound may be louder at the rear set of speakers than what is normally heard with true stereo signal Surround Sound. but this is normal.

DISPLAY VOLUME

Use the DISPLAY VOLUME control to see the TV's volume level settings on the TV screen.
Once set the Volume Display will be seen each time the VOLUME buttons (on the TV or remote) are pressed.

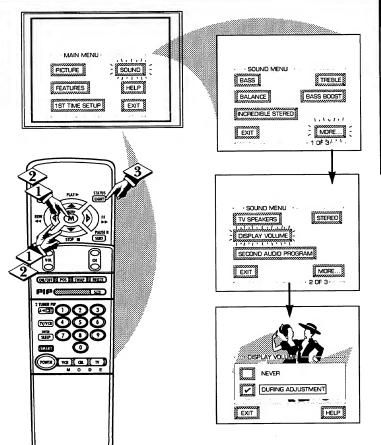
Select DISPLAY VOLUME | control.

With SOUND MENU (2 of 3) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU ▲▼ and
MENU (M) buttons to highlight
and turn ON () the DISPLAY
VOLUME control.

Press the STATUS button to clear the screen.





SMART





Remember, Unit of the control of the

SOUND MENU CONTROLS (CONTINUED)

TV SPEAKERS

Would you like to hear TV programs through your audio hi-fi system? The TV's Variable Audio Output jacks and TV Speaker On/Off control work together to offer you this TV sound option.

Connect the R(ight) and L(eft)
VARIABLE AUDIO OUT jacks
on the TV to the R and L Audio
Input jacks on your amplifier or
sound system.

Set the audio system's volume to normal listening level.

- ON. You can now adjust the sound level coming from the audio system with the Volume $\blacktriangle \blacktriangledown$ buttons on the TV or remote.
- To hear the TV sound from only the audio system speakers, select TV SPEAKERS control.

With SOUND MENU (2 of 3) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

4 Press the MENU ▲▼ and MENU (M) buttons to highlight and turn OFF () the TV SPEAKERS control.

You should now only hear TV sound coming from the audio system speakers.

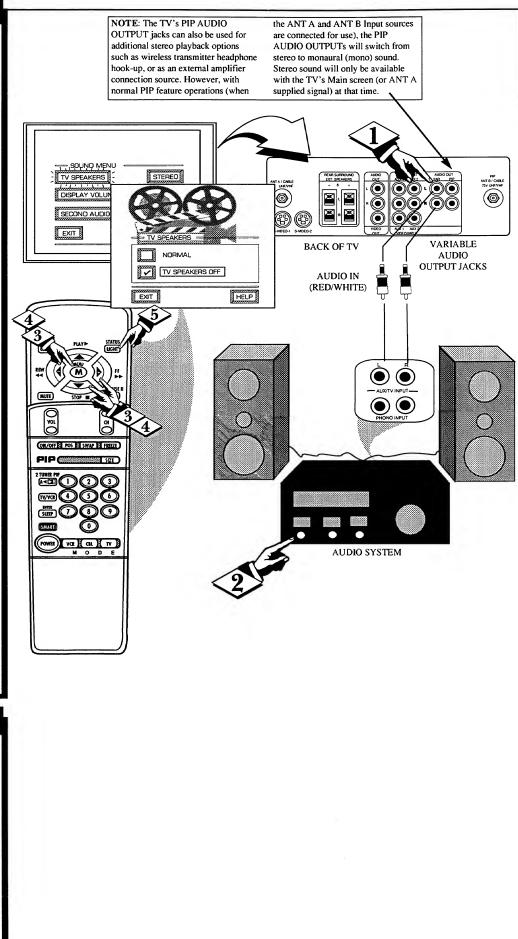
5 Press the STATUS button to clear the screen.



SMART HELP

Remember, the audio system may have to be in AUX(iliary) mode to play sound from the TV (Outputs).

Note: When the TV SPEAKER control is set to "NORMAL" (for TV speaker operation) make sure the VARIABLE AUDIO OUTPUT control (see next page) is also set to "STEREO" in order for the TV's AUDIO OUTPUT jacks to work properly.



Sound Menu Controls (continued)

SURROUND SOUND

By adding optional external speakers to the TV's sound system, you can create the feeling of reflected sound that surrounds you at a movie theater or concert hall.

(BEGIN)

Connect both external speakers to the speaker wire terminals on the TV.

Recommended speakers: 80hm, 15 watt minimum. Be sure the (+) and (-) speaker wires are connected to the correct R(ight) and L(eft) speaker terminals on the TV.

Place the speakers so the viewing area is between the TV and the rear surround speakers. (See overhead view drawing.)

3 Turn TV ON and place the STEREO control to the "STEREO IF AVAILABLE" (✓) position.

After setup whenever a stereo signal is received the audio will be heard in Surround Sound.



VARIABL<u>E AUDIO OUTPUT</u>

The TV's Variable Audio Output jacks can also be used for Surround Sound. Once they are connected to an external hi-fi system its speakers can be used for the playback of Surround Sound.

BEGIN

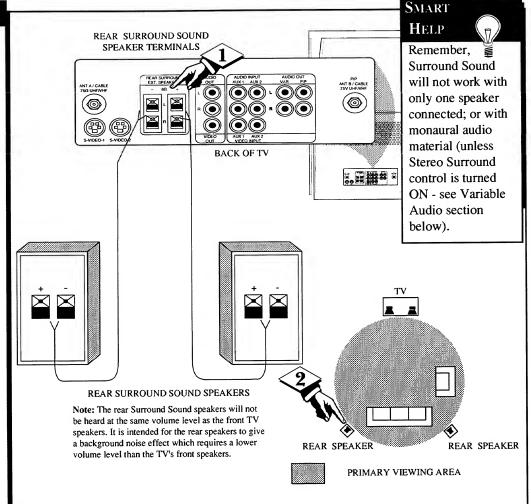
Connect the R(ight) and L(eft)
VARIABLE AUDIO OUT jacks
on the TV to the R and L Audio
Input jacks on your amplifier or
sound system.

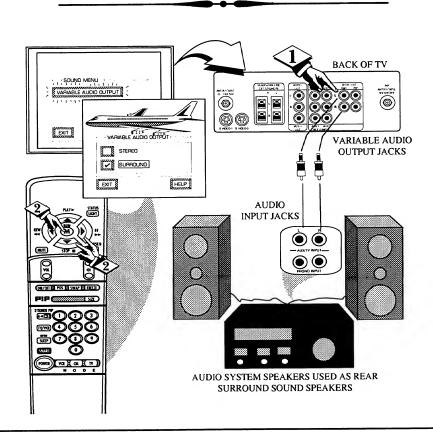
VARIABLE AUDIO OUTPUT on screen control to the SURROUND

() position. (Sound Menu 3 of 3).

Note: This will change the Left/Right channel audio line level signal at the Audio Output jacks to the same signal found at the TV's Surround Sound Speaker terminals.







USING THE AUDIO/VIDEO INPUT JACKS

VCR/AUX INPUTS

The TV's Audio/Video Input jacks are for direct picture and sound connections between the TV and a VCR (or Video Disc Player, etc.) that has Audio/Video Output jacks.

To view the playback of a VCR tape by using the Audio/Video Input jacks on the TV:

(BEGIN)

Connect the VIDEO OUT jack from the VCR to the AUX 1
VIDEO IN jack on the TV.

2 Connect the AUDIO OUT

jacks R(ight) and L(eft) from the

VCR to the AUX 1 AUDIO IN

jacks on the TV.

Select the "AUX 1"
PICTURE SOURCE SELECT
control on the TV.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

4 Press the MENU ▲▼ and MENU (M) buttons to highlight and select (✓) the AUX 1 mode.

Turn the VCR ON and press
PLAY to view the tape on the
TV.

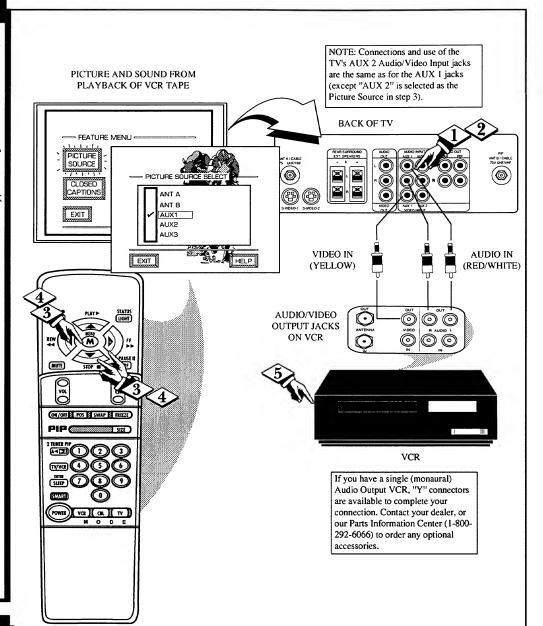


SMART HELP

Remember, after it is connected an easy way to select the AUX 1 mode is to press the VCR button on the front of the TV (or the TV/VCR button on the remote.) Channels 3/4, ANT A/B, AUX 2/3, and the last channel viewed can also be selected in this way.

If you have added AUX 1 to the TV's channel memory (see page 14), just press the CHANNEL ▲▼ buttons to select the AUX 1

mode.



Using the Audio/Video Input Jacks (continued)

AUX 3 INPUTS

For more convenient Direct playback connections the TV's Front Audio/Video Input panel can be used. Located next to the TV's front control panel (under a small cover door) these Input jacks allow for quick and easy connections, particularly for the playback of Camcorder tape recordings.

To view the playback of a Camcorder recording using the Audio/Video Input jacks on the front of the TV:

(BEGIN)

- Connect the VIDEO OUT jack from the Camcorder to the Front VIDEO IN jack on the TV.
- 2 Connect the AUDIO OUT jacks R(ight) and L(eft) from the Camcorder to the Front AUDIO IN jacks on the TV.
- 3 Select the "AUX 3"
 PICTURE SOURCE SELECT control on the TV.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

- Press the MENU ▲▼ and MENU (M) buttons to highlight and select (✓) the AUX 3 mode.
- Turn the Camcorder ON and press PLAY to view the tape on the TV.

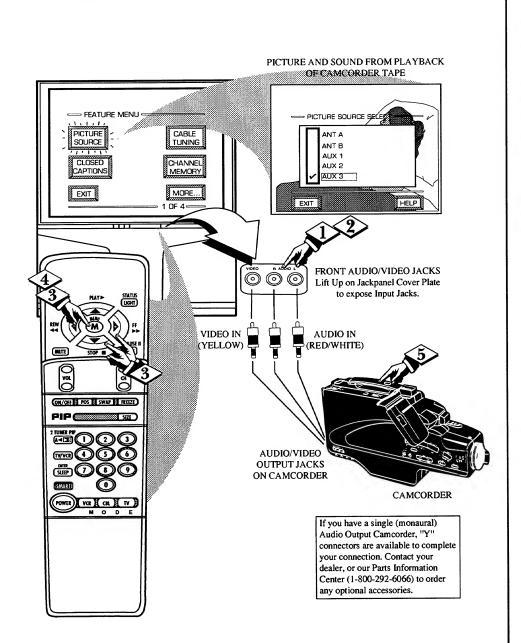


SMART HELP

Remember, after it is connected an easy way to select the AUX 3 mode is to press the VCR button on the front of the TV (or the TV/VCR button on the remote). Channels 3/4, ANT A/B, AUX 2/3, and the last channel viewed can also be selected in this way.

If you have added AUX 3 to the TV's channel memory (see page 14), just press the CHANNEL

▲▼ buttons to select the VCR/AUX mode.



Using the Audio/Video Input Jacks (continued)

AUX1 - S-VIDEO INPUTS

The S(uper)-Video connection on the rear of the TV can give you better picture detail and clarity, for the playback of S-VHS VCR tapes or Video Discs, than the normal antenna picture connections.

Note: The VCR (or Video Disc Player) must have a S-VIDEO OUT(put) jack in order for you to complete the connections shown on this page.

BEGIN

Connect the S-VIDEO (S-VHS) OUT jack from the VCR to the S-VIDEO 1 jack on the TV.

The S-VIDEO connecting cable will be supplied with the S-VHS VCR (or Video Disc Player).

- jacks R(ight) and L(eft) from the VCR to the AUDIO AUX IN 1 jacks on the TV.
- Select the "S-VIDEO"

 PICTURE SOURCE control.

 With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons.

 Then press the MENU button.

The "S VIDEO" picture source option appears only when a S-VIDEO cable has been connected to the TV.

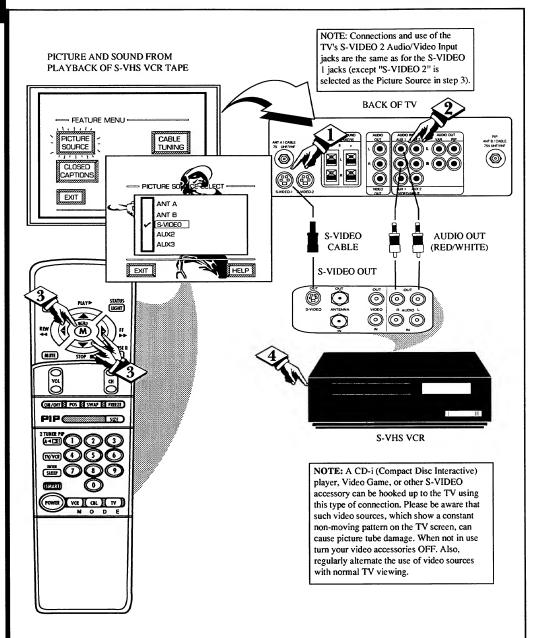
In the S-VIDEO (or S-VHS)
playback mode. Insert S-VHS
cassette tape and playback in a
normal manner.



SMART HELP

Remember, after it is connected an easy way to select the S-VIDEO mode is to press the VCR button on the front of the TV (or the TV/VCR button on the remote.)

If you have added AUX 1 to the TV's channel memory, just press the CHANNEL ▲▼ buttons to select the S-VIDEO mode.



Using the Audio/Video Output Jacks (continued)

AUDIO/VIDEO OUTPUTS

The Audio/Video Output jacks on the TV can be used to record TV programs on VCRs which have Audio/Video Input jacks.

To record TV programs by using the Audio/Video jacks on the TV:

(BEGIN)

- from the TV to the VIDEO IN jack on the VCR.
- jacks R(ight) and L(eft) from the TV to the AUDIO IN jacks on the VCR.
- Select the "ANTENNA"
 PICTURE SOURCE control on the TV.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Select the channel on the TV that you want to record.

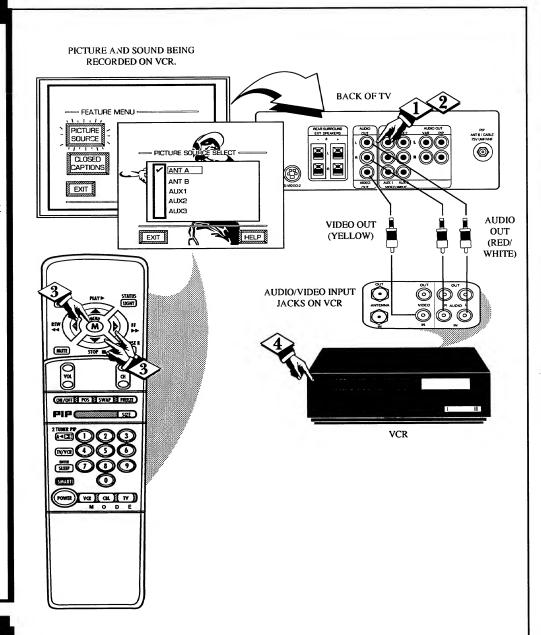
Turn the VCR ON. Put a cassette tape in the unit and place the VCR in the RECORD mode.



SMART HELP

Remember, If the VCR
has an INPUT SELECTOR
switch, place it in the LINE or
CAMERA position.

Unattended Timer Recordings with a VCR are possible, but not recommended with this connection since the TV must be left ON for the VCR to record.



REMOTE CONTROL OPERATION (CONTINU

Regardless of what type of program your watching, your TV has automatic video control settings matched for your current program source or content. The Smart Picture feature quickly resets your TV's video controls for a number of different types of programs and viewing conditions you may have in

SMART PICTURE

(BEGIN)

your home.

Press the SMART button on the remote.

Press the MENU (M) button to select the Smart Picture feature (highlighted in RED).

Duttons to choose any of the preset viewing categories (Example: Cartoons, Movies, etc.). Then press the Menu (M) button to select the highlighted control.

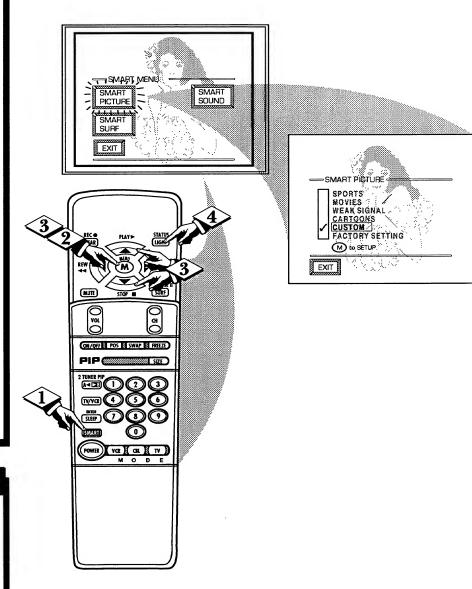
Press the STATUS button on the remote to clear the screen.



SMART HELP

Remember, with Smart
Picture "Custom" mode
selected you can set a number of
video controls to your own
preference. Use the remote's Smart
button to reselect these personally
adjusted Custom settings contained
within the Smart Picture feature.
(See the next page for more detailed
instructions.)

The video control settings for the Smart Picture categories (except CUSTOM) are memorized into the TV at the factory and can only be reset by field and service technicians.



TUNER PP (1) (2) (3)

TWG 4 (3) (6)

VOR COL TV



SMART PICTURE

To use the Custom Smart Picture settings placed in memory (see the previous page):

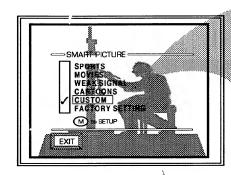
(BEGIN)

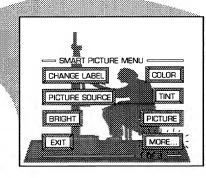
Press the SMART button on the remote.

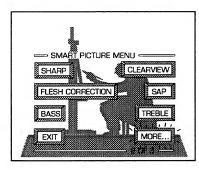
List of "SMART PICTURE" categories shows on the TV screen.

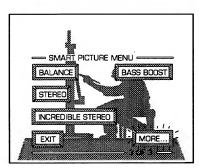
- Press the MENU ▲ or ▼
 | buttons to highlight the "CUSTOM"
 | Smart Picture category.
- 3 Press the MENU (M) button.
- Press the MENU buttons to move the RED highlight to the control you wish to adjust, then press the Menu (M).
- Press the STATUS button after you have finished your adjustments to clear the screen.









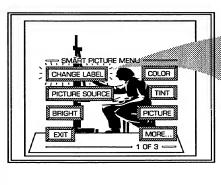


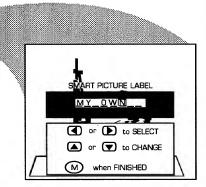
CHANGE LABEL

The "CHANGE LABEL" control can be used to change the title of a SMART PICTURE setting into a name or label that may be easier for you to remember.

BEGIN

- With the "SMART PICTURE LABEL" control on the screen, press the MENU ▲▼ buttons to spell out a new label or title for the selected SMART PICTURE.
- Press the MENU ◀ ▶ buttons to move the red highlight to each letter space.
- Press the STATUS button to clear the screen when the new label is finished.







AVL

Are you tired of the sound of commercials following you into the next room or all through the house? Automatic Volume Limiter (AVL) allows you to preset a desired volume level that the TV sound will not go above. This makes for an even, more consistent sound by reducing the "peaks" and "valleys" that can occur during program changes or commercial breaks.

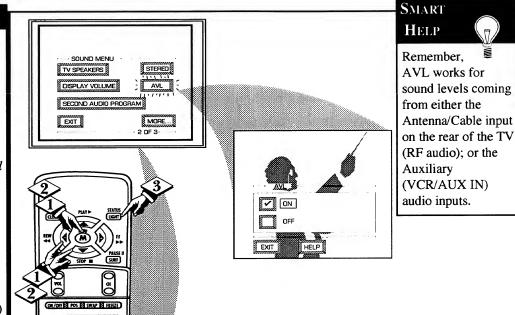
1 Select the AVL control.

With the SOUND Menu (2 of 3) on the screen, move the RED highlight with the MENU (**) buttons. Then press the MENU (M) button to select the highlighted AVL control.

Press the MENU ▲ or ▼ and then the MENU (M) button to turn the AVL control ON (or OFF).

Press the STATUS button to clear the screen when completed.





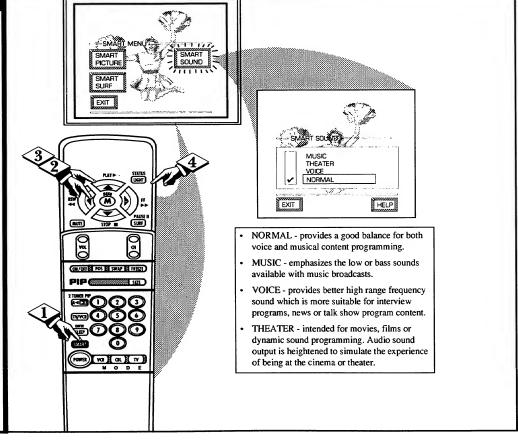
SMART SOUND

The Smart Sound control offers four original sound mode settings for different types of TV programming.

BEGIN

- Press the SMART button on the remote.
- with the SMART Menu on the screen, move the RED highlight with the MENU buttons. Then press the MENU (M) button to select the highlighted Smart Sound control.
- 3 Press the MENU ▲ or ▼ to move the RED highlight between the various TV sound settings (For example: Music Theater, Voice, or Normal.) Then press the MENU (M) button to select () the desired Smart Sound mode.
- Press the STATUS button to clear the screen when completed.







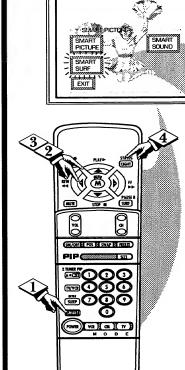
2-CHANNEL SURF/SMART SURF

A "list" or series of previously viewed channels can be selected with the SURF button on your remote control. With this feature you can easily switch between different TV programs that currently interest you. The Smart Surf control allows you to set up to 10 channels in its quick viewing "list".

(BEGIN)

- Press the Smart button on the remote.
- with the SMART Menu on screen, move the RED highlight with the Menu (M) buttons. Press the MENU button to select the highlighted Smart Surf control.
- Menu (M) button to select either Smart Surf or 2-Channel Surf. (See explanation of Surf options with the illustration on this page.)
- Press STATUS button on the remote control to clear the screen.





SMART SUBF.

SYART SUBF.

2 CHANNEL SUBF

EXIT.

HELP

2 CHANNEL SURF- Current and one previous channel in the ring.

SMART SURF - Current and up to nine additional channels available in the ring. Note: The Channel Surf ring can be used with fewer than ten channels. In this way, the number of Surf channels can match or fit your present viewing interests.

SMART HELP



To Use 2-Channel

With the 2-Channel Surf control ON, select the two desired channels for viewing with the number buttons on the remote control.

Press the SURF

button on the remote to "toggle" between the two selected channels.

How To Use Smart Surf

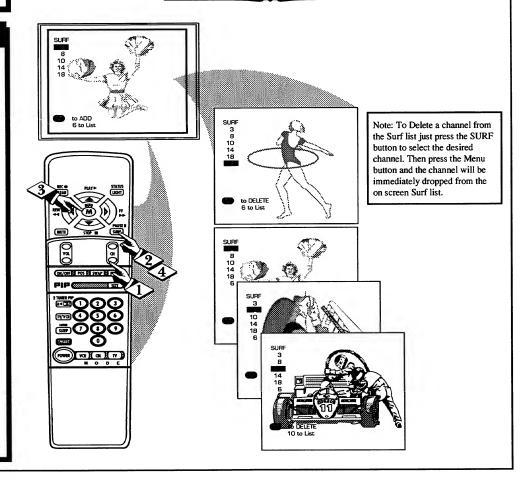
(BEGIN)

With the Smart Surf control
ON (see above), select a desired
channel for viewing. You can use
the number buttons on the remote (or
the Channel ▲▼ buttons).

- Press the SURF button on the remote. (Some channel numbers may already appear within the Surf channel list.)
- The selected channel to the Surf list.

 Select the next desired channel and repeat steps 2 and 3. Continue until all desired channels are on the Surf list.
- Press the SURF button on the remote to quickly review current action on channels contained within the Surf list.





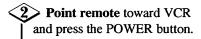
SETTING THE REMOTE TO WORK VCRS

Your remote control is set to work your TV and many infrared remote (IR) control VCRs. However, an easy onetime step may be necessary before the remote will work your VCR.

Try this initial check to see if going on to the following section is necessary.

BEGIN

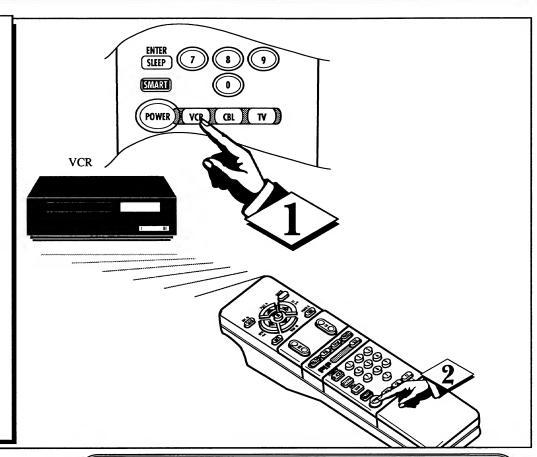
> Press the VCR System button on the remote.



3 Does the remote turn the VCR | ON?

IF YES, and try the other VCR buttons on the remote. If they also work the VCR, then the remote is ready and no further steps are needed.

If NO, continue...



First look up a **TWO-DIGIT**remote code number for your
brand VCR before going through
the simple "1,2,3" steps (on the
following page).

continue to next page

SMART HELP

Remember, if more than one number is listed, you may have to try more than the first two-digit code given in order to locate your VCR's remote code.

VCR BRAND	REMOTE <u>CODE NO.</u>	VCR <u>BRAND</u>	REMOTE CODE NO.	7
Akai	24, 25, 36	Panasonic	01, 02, 52	
Capehart	33	Philips	00, 05	
Conoid	13	Philips Video CI	37	
Curtis Mathes	42	RCA (04, 32, 42, 43, 44	
Daewoo	33	Samsung	22, 30	
Emerson	20, 31, 34, 40	Sansui	49	
Fisher	06, 07	Sanyo	13	
Goldstar	23	Sears	08	
Go Video	45, 46	Sharp	11, 12	
Hitachi	03, 51	Shintom	35	
JVC	14, 47, 48	Sony	09, 10,41	
Magnavox	00, 05	Teknika	26	
Matsushita	01, 02	Toshiba	18, 19	
Mitsubishi	16, 17, 38, 39, 50	Video Concepts	29	
Multitech	27,28	Zenith	15	
NEC	21			1

SETTING THE REMOTE TO WORK VCRs (CONTINUED)



Now that you have looked up the two-digit Remote Code Number for your brand of VCR (on previous page), you are ready to follow the four simple steps below.

Please read through steps 1-4 before beginning.

(BEGIN)

- Press and release the REC (RECORD) button.
- Within thirty seconds after releasing the REC button, press and release the VCR System button.
- Within thirty seconds after releasing the VCR System button, ENTER THE TWO DIGIT CODE NUMBER for the desired VCR. The remote is now ready to send commands to the VCR.
- Point the remote at the VCR.
 Press the POWER button on the



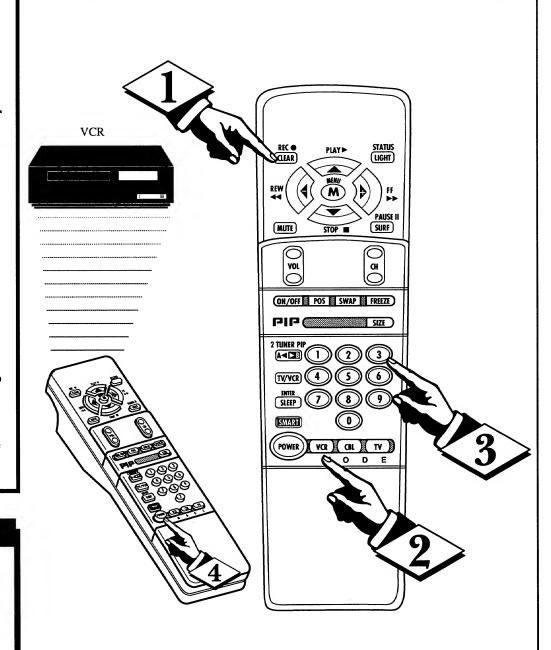
SMART HELP

Try it out. The Channel and VCR buttons on the remote should now operate the VCR.

Remember, if this doesn't work the first time, repeat steps using the same remote code number.

If after a second try the remote does not operate your VCR, and there are more code numbers listed for your brand VCR, use the next listed code number.

If after repeated attempts the code number method does not work your VCR, try the "VCR SEARCH" method on page 40.





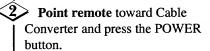
SETTING THE REMOTE TO WORK CABLE TV CONVERTERS

Your remote control is set to work your TV and many infrared remote (IR) control Cable Converters. However, an easy one-time step may be necessary before the remote will work your Converter.

Try this initial check to see if going on to the following section is necessary.

BEGIN

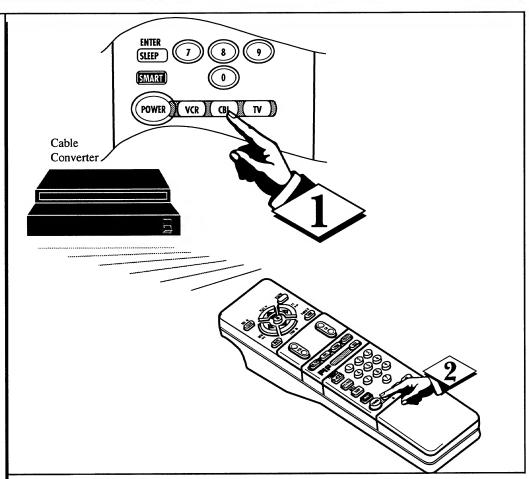
Press the CBL System button on the remote.



3 Does the remote turn the Converter ON?

and CH number buttons on the remote. If they also work the Converter then the remote is ready and no further steps are needed. ▼

If NO, continue...



First look up a **TWO-DIGIT** remote code number for your brand Converter before going through the simple "1,2,3" steps (on the following page).

continue to next page

SMART HELP

Remember, if more than one number is listed, you may have to try more than the first two-digit code given in order to locate your Converter's remote code.

CONVERTE BRAND	ER REMOTE CODE NO.	CONVERTER <u>BRAND</u>	REMOTE CODE NO.
Archer	28	Rembrant	33
Diamond	23	Salora	52
Drake	37	Scientific Atlanta	08, 22, 47
Gemini	45	Sheritech	34
Hamlin	14, 15	Starcom	30
Hitachi	25	Sylvania	16
Jerrold 00,01	,02,03,04,05,46,55	Texscan	48
Macom	29, 38	Tocom	12,13, 53
Magnavox	17, 31	Toshiba	43
NSC	49	Uniden Satellite	44
Oak	06, 27, 39	Unika	50
Panasonic	18, 35	United Satellite	54
Philips	19, 20, 21, 24, 26	Universal	36
Pioneer	09, 32	Video Tech	40
Regency	10, 11	Video Way	51
		Zenith	07, 41, 42

SETTING THE REMOTE TO WORK CABLE TV CONVERTERS (CONTINUED)



Now that you have looked up the two-digit Remote Code Number for your brand of Cable Converter (on previous page), you are ready to follow the four simple steps below.

Please read through steps 1-4 before beginning.

BEGIN

Press and release the REC (RECORD) button.

Within thirty seconds after releasing the REC button, press and release the CBL System button.

Within thirty seconds after releasing the CBL System button, ENTER THE TWO DIGIT CODE NUMBER for the desired Converter. The remote is now ready to send commands to the Converter.

Point the remote at the Converter. Press the POWER button on the remote to turn the Converter ON.



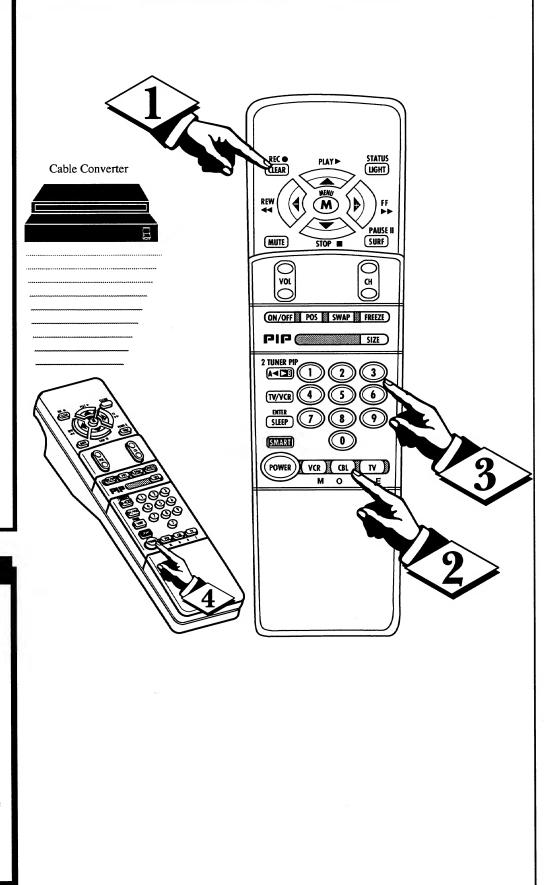
SMART HELP

Try it out. The Channel and POWER buttons on the remote should now operate the Converter.

Remember, if this doesn't work the first time, repeat steps using the same remote code number.

If after a second try the remote does not operate your Converter, and there are more code numbers listed for your brand Converter, use the next listed code number.

If after repeated attempts the code number method does not work your Converter, try the "CONVERTER SEARCH" method on page 40.





SETTING YOUR REMOTE TO WORK VCRs, CONVERTERS - SEARCH

Your TV remote can be set to work your VCR or Cable Converter by what is called the SEARCH method.

If the "REMOTE CODE" number method shown in the previous section did not set your remote to work your VCR or Converter, then follow the easy steps listed below.

Please read through steps 1-4 before beginning.

BEGIN

> Press the POWER button on the VCR or Converter to turn the unit ON.

Stand at least six feet away from the front of the VCR or Converter.

Point the remote toward the unit. HOLD DOWN the SURF and the desired System (VCR or CBL-Converter) buttons at the same time. KEEP HOLDING BUTTONS DOWN.

Watch the Channel Indicator on the unit.

Channel Numbers will SCAN UP when the unit has been identified. This may take up to two minutes.

4 Release the SURF and System (VCR or CBL) buttons as soon as channel numbers start to scan up. The code has been identified and the remote is ready to operate with the VCR or Converter.

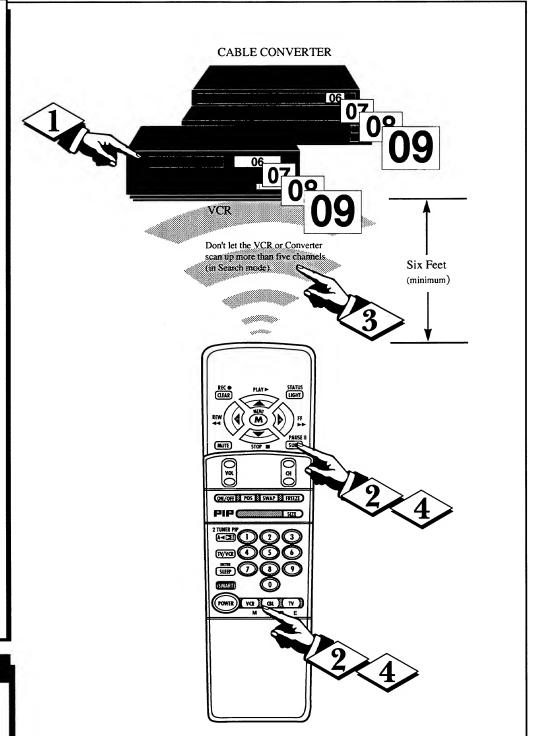




Remember, a minute or two can seem very long, but the code should be located within two minutes.

Don't let the VCR or Converter scan up more than five channels. The remote may pass up the right code and another two minute search cycle will have to be repeated.

If no channel change happens within two minutes, repeat steps 1-4. Should a channel change still not occur, the remote will not work with the desired unit.



USING THE REMOTE'S VCR BUTTONS



When using the TV remote with a VCR, first make certain it is set to control your VCR (by the REMOTE CODE or SEARCH method - see earlier section).

(BEGIN)

Press the VCR System button on the remote.

Point the top of the remote toward the front of the VCR (remote sensor window) when pressing buttons.



Record Button

Hold the RECORD button down, and then press the PLAY button to begin a VCR recording.

Rewind Button

Press to rewind tapes. For some VCRs you may need to press STOP button first then REWIND. In playback mode. hold button down to view picture moving rapidly in reverse.

Pause Button

Press to temporarily stop the tape during a playback, or recording. Press again to release Pause.

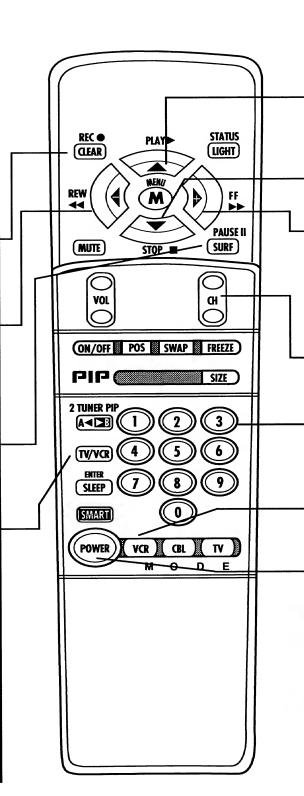
Press to the VCR position ("VCR"

indicator on the VCR will light) to

TV-VCR Button

view the playback of a tape. Press again to place in the TV position ("VCR" indicator on the VCR will go OFF) to view one program while recording another program.

When used with the TV the TV/VCR button works as a source button. Each press cycles the TV between channels 3/4; the last view channel; ANT A/B inputs, and any AUX(iliary) Input mode (if it has been connected.) It is a quick one-button way to select these channels and modes (without directly entering the TV's Menu system.)



Play Button

Press to playback a tape. Hold down after pressing the RECORD button to start a recording.

Stop Button

Press to stop the tape.

Fast Forward Button

Press to rapidly advance the tape. For some VCRs you may need to press STOP first then FF. In Playback mode hold button down to view the picture moving rapidly in the forward direction.

Channel Scan Buttons

Press to scan up or down through VCR channel numbers.

Number Buttons

Press buttons for direct VCR channel selections.

VCR System Button

Press to send remote commands to the VCR.

Power Button

Press to turn the VCR ON and OFF.

SMART HELP

Remember, the VCR buttons on the remote will not operate your VCR if those features are not already found on your VCR remote control.

Note: All VCR functions (particularly Search, Rewind, Fast Forward, etc.) will operate the same as with the original VCR remote control provided with the VCR.

How to Use the Picture-In-Picture (PIP) Feature

Picture-in-Picture (PIP) is the showing of two pictures on the TV screen at the same time. (One main screen picture and one small inset picture - or PIP). For your ease and convenience this TV has two separate inputs (ANTenna A and ANTenna B) for your home's Antenna and/or Cable TV system, signal.

The ANT A input is primarily for the TV's main screen picture. The ANT B input is provided as a second, dedicated source option for the TV's PIP "window" and its feature operations. The signal connected to the ANT B input can be either a Split Signal Input (as described in the section on this page), or another type of external signal source (such as a satellite dish system, additional home antenna, video accessory, etc.).

See the following steps on how channels connected to the ANT(enna) B Input can be shown and used within the PIP window:

(BEGIN)

Cable TV signal to the single 75 ohm INPUT plug on a two-way Signal Splitter (not supplied).

Connect two lengths of RF Coaxial Cable (F-type connectors on both ends) to the two OUTPUT plugs on the two-way Signal Splitter.

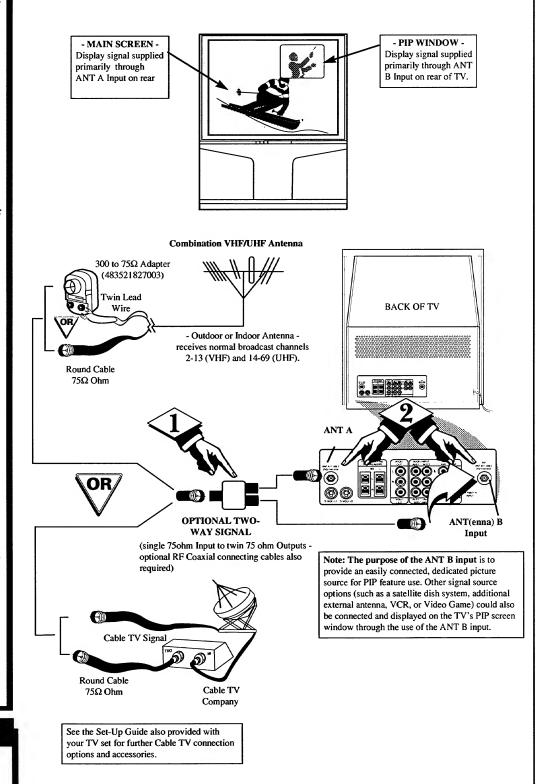
plugs on the Signal Splitter to the ANT A and ANT B Inputs on the rear of the TV.

continue to next page

SMART HELP

For other possible PIP connections see page 47 for the "More PIP Connections" section.

If you need any accessories or parts to complete the described PIP connections, contact your dealer, or our Parts Information Center at (1-800-292-6066), for details.



Now that you have completed the required connections on the previous page you are ready to follow the simple steps shown below.

3 Turn the TV ON.

Place the TV's PIP SOURCE SELECT control to "ANT B"-

- With FEATURES MENU (4 of 5) on screen, move the RED highlight with the MENU (M)
 buttons. Then press the MENU button.
- Press the MENU ▲▼ and MENU (M) buttons to highlight and select the ANT B" (✓) item.

Also place the TV's Main screen PICTURE SOURCE SELECT control to "ANT A"-

• See the Picture Source option FEATURES MENU (1 of 5).

Press the STATUS button to clear the screen when the above Menu items have been set.

Press the PIP ON/OFF button on the remote.

The PIP window should show in one of the corners of the TV screen.

buttons on the remote to move the ANT B and ANT A Input pictures between the PIP window and Main screen.

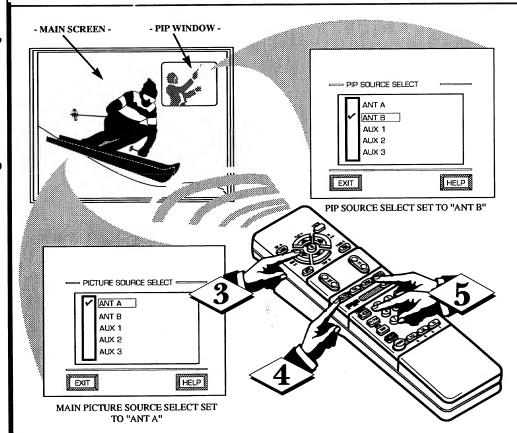
Use the Channel Number or CH ▲▼ buttons to select desired programs for viewing. Program Sound occurs with the channels displayed on the Main screen

SMART HELP

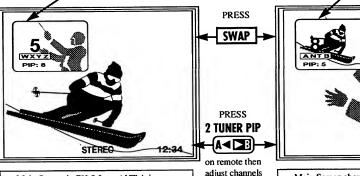
Remember, if you see the same picture on the main screen and in the PIP window, check to be sure the TV's PIP Source Select and Main screen Picture Source select are set for ANT B and ANT A respectively. See the following page on how to

operate other PIP features with the

TV's remote control.



BLACK frame around the PIP window appears when the ANT A Input is on the Main screen.



with CH▲▼ or

Number buttons

- Main Screen is CH 5 from ANT A input.
- PIP is CH 8 from ANT B input

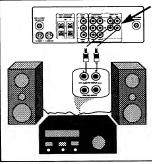
Main Screen shows CH 8 from ANT B input.

WHITE frame around the PIP window appears

when the ANT B Input is on the Main screen.

• PIP is CH 5 from ANT A input.

NOTE: Sound for TV programs displayed in the PIP window can also be heard through the use of PIP AUDIO OUT jacks on the rear of the TV. Just connect the TV's Left/Right PIP AUDIO OUTPUTs to the correct AUX(iliary) Inputs on an external stereo sound system (through which the PIP audio will be played).



PIP AUDIO OUTPUT will be monaural (mono) when both ANT A and ANT B are being used for normal PIP operation. See page 26 for details on other stereo sound uses for the PIP Audio Output jacks.

USING PIP WITH THE REMOTE CONTROL

By using the PIP buttons on the remote the PIP picture can be moved and swapped with the main screen. The main screen picture can also be frozen in the PIP window.

(BEGIN)

1 Press the PIP ON/OFF button to show the PIP picture.

PIP appears in a corner of TV screen. Press PIP ON/OFF again to remove PIP from the main screen.

2 Press the PIP POSITION
button to move the PIP picture
(from corner-to-corner on the TV
screen.)

This feature allows you to move PIP and avoid blocking off any main screen action.

With PIP on the TV screen,
press the SWAP button to swap
the main screen picture with the
PIP picture. See "Smart Help"
note on this page.

4 Press FREEZE to hold the current MAIN screen picture in the PIP window (Main picture is still active).

If PIP is currently OFF, the PIP window will automatically appear.

Press FRZ repeatedly to update the frozen PIP with current pictures from the Main screen.

You cannot reposition a frozen PIP picture.

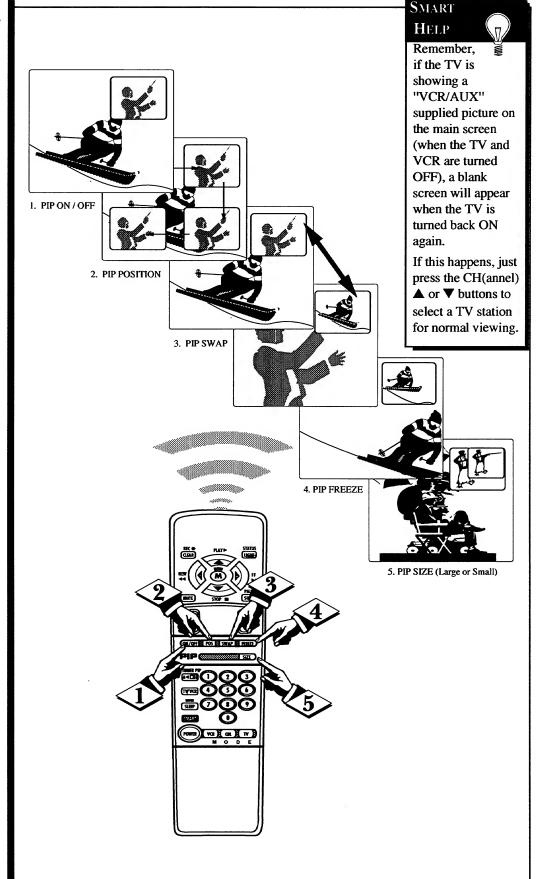
Press the PIP ON/OFF button to drop the frozen PIP picture from the screen.

Press the PIP SIZE button to change the size of the PIP window shown on the TV screen.

Press the PIP SIZE button again to see and compare the large and small size PIP windows.

You cannot change the size of a frozen PIP picture.





SELECTING THE PICTURE SOURCE FOR PIP



PIP SOURCE

The picture for the PIP window can come through either the ANT(enna) A / B Inputs or the AUX 1/2/3 Inputs (on the front and rear of the TV). PIP Picture Source simply tells the TV which one of these sources it is to show in the PIP window.

BEGIN

1> Select PIP SOURCE control.

With FEATURES MENU (4 of 5) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

Press the MENU ▲▼ and
MENU (M) buttons to highlight
and select the desired () PIP
Picture Source.

ANT A or B- for a picture signal coming from either the ANT(enna) A or B Input plug on the TV.

Note: The remote control's button can also be used to quickly swap between the picture sources for the TV's Main screen and the PIP window.

AUX 1- for a picture signal coming from the AUX IN 1 Video Input jack on the rear of the TV.

AUX 2- for a picture signal coming from the AUX IN 2 Video Input jack on the rear of the TV.

AUX 3- for a picture signal coming from the Video Input jack on the front of the TV.

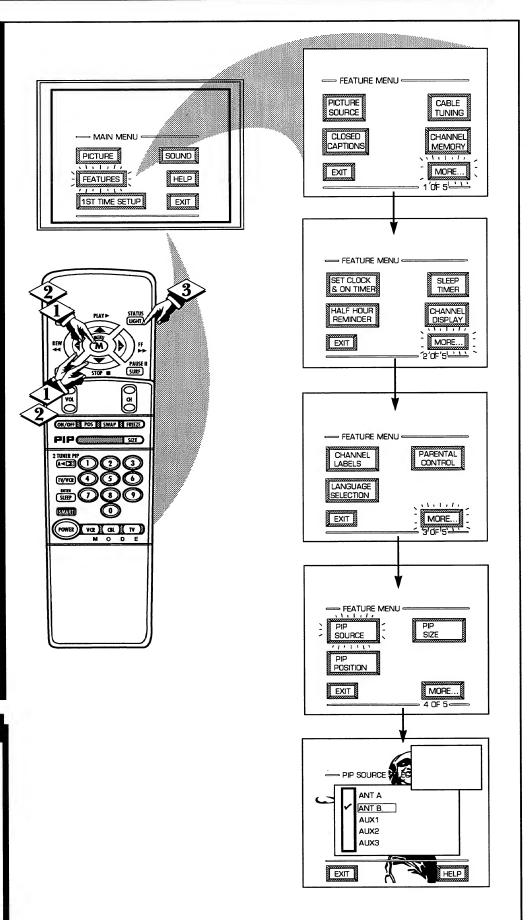
Press the STATUS button to clear the screen.



SMART HELP

Remember, the PIP window will be blank unless a signal is connected to the selected PIP Picture Source (ANT B, AUX 1/2/3, etc.) on the rear of the set.

If you see the same picture on the main screen and in the PIP window, you may have the Main Screen and PIP window set to the same video input source.



ADJUSTING PICTURE-IN-PICTURE COLOR AND TINT



PIP COLOR / PIP TINT

The Picture-In-Picture (PIP)
Color and Tint controls are
used to make fine tune adjustments
to the color settings for PIP (when
it is shown on the TV screen).

(BEGIN)

Select PIP COLOR (or PIP TINT) control.

With FEATURES MENU (5 of5) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

Press the MENU ▲▼ buttons to move the RED highlight. Press the MENU button to turn (▶) the PIP COLOR or TINT control ON.

The PIP automatically comes on to show the PIP window on the TV screen.

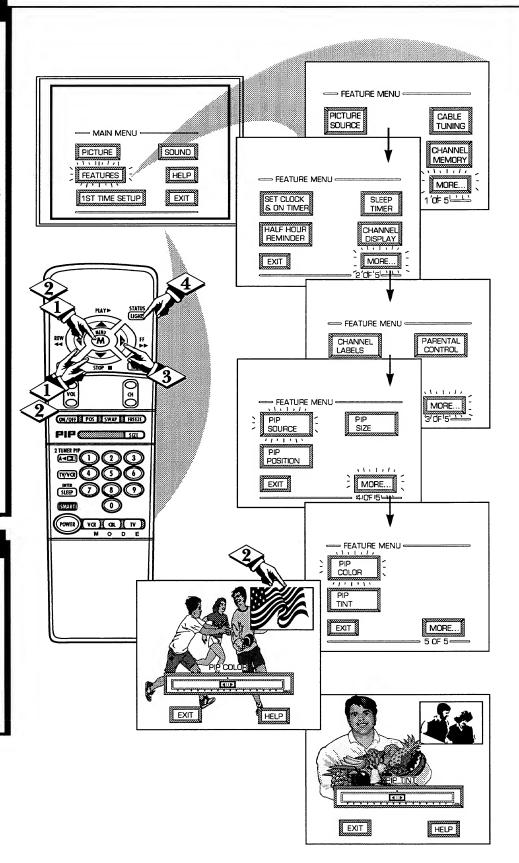
Press the (+) and (-) buttons to adjust the PIP for Color (or Tint) levels you prefer.

Press the STATUS button to clear the screen.



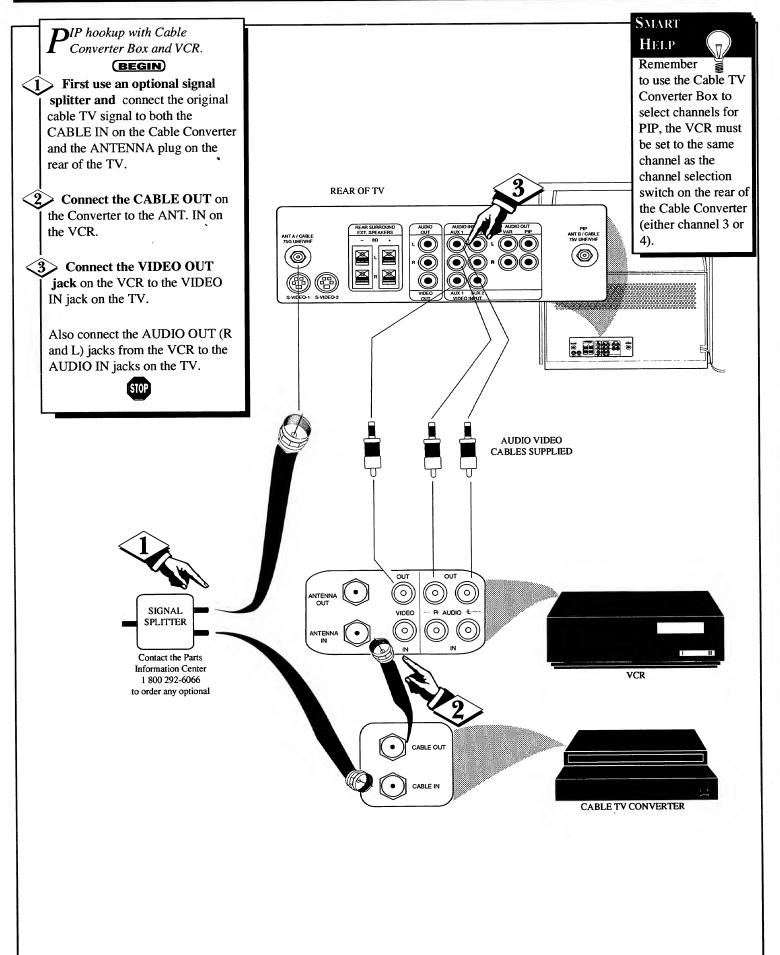
SMART HELP

Remember. Although
there are separate COLOR
and TINT controls for PIP, the
adjustment levels for these
controls depend on the TV's main
picture. For example: If the main
screen is showing a black and
white picture, PIP would also be
in black and white (even though
its source is in color).



MORE PIP CONNECTIONS





TV HELP MENU

The on screen HELP menu offers both Operating Tips and a list of Glossary definitions for different features on your TV. These items are given to provide you with more information and details on a select group of feature operations.

(BEGIN)

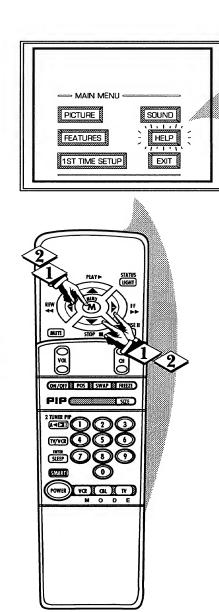
Select "HELP" on the TV's Main Menu.

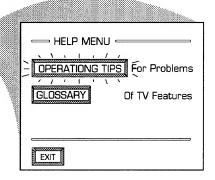
Press the remote's Menu buttons to move UP/DOWN and from SIDE-TO-SIDE within the list of on-screen features.

Press MENU (M) to select the highlighted "HELP" item.

Press the MENU ▲▼ and then the MENU (M) buttons to select either the OPERATING TIPS or GLOSSARY item.







- OPERATING TIPS =

USING OPERATING TIPS

- Use the ▲ and ▼ keys on your remote to scroll through the different help items.
- Use the "M" key on your remote will go back to the help menu.

FOLLOW THE ON SCREEN DIRECTIONS TO VIEW OPERATING TIPS

TIPS IF SOMETHING ISN'T WORKING



Please make these simple checks before calling for service. These tips can save you time and money since charges for TV installation and adjustment of customer controls are not covered under your warranty.

CAUTION: A video source (such as a video game, Compact Disc Interactive - CDI, or TV information channel) which shows a constant non-moving pattern on the TV screen, can cause picture tube damage. When your TV is continuously used with such a source the pattern of the non-moving portion of the game (CDI, etc.) could leave an image permanently on the picture tube. When not in use, turn the video source OFF. Regularly alternate the use of such video sources with normal TV viewing.

No Power

- Check the TV power cord. Unplug the TV, wait 1 minute, then reinsert plug into outlet and push POWER button again.
- Check to be sure outlet is not on a wall switch.

No Picture

- Check antenna connections on the rear of the TV. Are they properly secured to the antenna plug on the TV?
- Check the CABLE TUNING control for correct position.
- Check PICTURE SOURCE control for correct position ANT A or B, AUX1, AUX 2, or AUX 3 position without a signal source will result in a blank screen.
- Check the CLOSED CAPTIONS control. Some TEXT modes could block the screen.

No Sound

- Check the VOLUME and MUTE buttons on the TV and remote.
- Check the TV SPEAKER NORMAL/OFF control for the correct position.
- If attempting auxiliary equipment hook-ups, check audio jack connections and that the auxiliary equipment is on and in the proper operating modes.

Remote Does Not Work

- Check TV-VCR-CBL "System" buttons on the remote. Press the remote's <u>TV</u> System button to send commands to the TV; <u>VCR</u> System to sent to VCR; etc.
- Check batteries. Replace with AA Heavy Duty (Zinc Chloride) or Alkaline batteries if necessary.
- Clean the remote and the remote sensor window on the TV.

TV Displays Wrong Channel or No Channels Above 13

- Repeat channel selection.
- Add desired channel numbers (ADD/DELETE CHANNELS control) into TV memory.
- · Check CABLE TUNING control for correct position.

This TV is equipped with protective circuitry that shuts the TV off in case of moderate power surges. Should this occur turn the TV back on by pressing the POWER button once or twice, or unplug and then replug the power cord at the AC outlet. This feature is NOT designed to prevent damage due to high power surges such as those caused by lightning, which is not covered by your warranty.

Cleaning and Care

- To avoid possible shock hazard be sure the TV is unplugged from the electrical outlet before cleaning.
- When cleaning the TV screen take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive- do not use household cleaners). Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Specially designed screen cleaning kits are also available which contain anti-static cleaners and cloths designed to get
 into the ridges of the TV screen. If interested, ask your dealer about the MAG4600 Projection TV Screen Cleaning Kit or
 call our toll-free Accessory Parts ordering number 1-800-292-6066.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool clear water and a mild soap or detergent. Use a clean dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the cabinet back.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

GLOSSARY TO TELEVISION TERMS



A/V Inputs * Connector plugs which allow the introduction of distinct audio and video signals into the TV from accessory VCRs, camcorders, etc. These plugs bypass the normal tuner or RF/Antenna signal circuitry.

Coaxial Cable * A single solid antenna wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75 Ohm input found on the Television or VCR.

Display * An on screen message or graphics that help the user operate and adjust his Television feature controls. See On Screen Displays (OSD).

Direct Audio/Video Inputs * Located on the rear of the TV these connectors (RCA phono type plug) are used for the input of audio and video signals. Designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound connection options.

Identify* Method by which a remote control searches and finds an operating code for another product (such as a VCR or Cable Converter). Once the code has been "identified" then the TV remote can operate and send commands to the other product.

Multichannel Television Sound (MTS) * The broadcast standard that allows for stereo sound to be transmitted with the TV picture.

Menu * An on-screen listing of feature controls shown on the Television screen that are made available for user adjustments.

Picture -In-Picture (PIP) * Term used when two pictures are shown on the TV screen at the same time. The smaller PIP picture is supplied by a VCR (or other tuner/video playback source). The PIP picture can also be moved and swapped with the TV's main screen picture.

Programming * The procedure of adding or deleting channel numbers into the Television's memory circuits. In this way the Television "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

Remote Sensor Window * A window or opening found on the Television control panel through which infrared remote control command signals are received.

Second Audio Program (SAP) * Another or additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. The most frequently proposed use for SAP is the simultaneous bilingual broadcast of TV program material.

Status * Allows the user to quickly confirm what channel number is currently being viewed. Status can also be used to clear the Television of on screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

S-Video Input * Allows direct connection of high-resolution video sources, such as a Super VHS videocassette recorder, Laser Disc player, etc. Provides optimum picture resolution, sharpness, and clarity.

Twin Lead Wire * The more commonly used name for the two strand 300 Ohm antenna wire used with many indoor and outdoor antenna systems. In many cases this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75 Ohm Input terminals designed into the more recent Televisions and VCRs.

INDEX



Accessories/Optional10, 26, 27, 28, 42, 47, *Q/U-1
Add/Delete Channels13-14, *Q/U-2
Advance Buttons*Q/U-2, 4
Audio Controls23-27
Audio/Video Input28-31, 42, 47, *Q/U-2
Automatic Programming13, *Q/U-2
Battery Installation*Q/U-3
Cable TV Connections/Settings12, 42, 47 *Q/U-1, 2
Channel/Time Display19, 22, *Q/U-3
Channel Label21
Channel Memory
Channel/Time Reminder
Clock Setting15
Clock Timer16
Closed Captioning11
Color Controls6,*Q/U-4
Convergence8
Controls/TV*Q/U-2, 3, 4
Controls/Remote32-41, 44, *Q/U-2, 3, 4
Exit*Q/U-4
Features5
First Time Set Up*Q/U-2
Help Menu48, *Q/U-2, 4
Inputs/Audio and Video28-31, 42, 47
Menu*Q/U-2, 4
Minus(-)/Plus (+) Buttons*Q/U-3, 4
Parental Control19-20

Picture-In-Picture (PIP)	42, 47, *Q/U-2
PIP Audio Output jacks	26, 43
Picture Source Control	10, 45
Precautions/Safety	2, 3, 49, *Q/U-1
Programming Channels	13, *Q/U-2
Remote Control	32-41, 44, *Q/U-2, 3, 4
Remote with VCRs	36-37, 40, 41
Requesting Service	
RF Coaxial Cable	42, 47, *Q/U-1
Reminder/Time and Channel	18
Safety/Precautions	2, 3, 49, *Q/U-1
Second Audio Program (SAP)	24
Sensor Remote	*Q/U-3
Sleep Timer	17
Smart Picture	32-33
Smart Sound	34
Surround Sound	27
Speaker Terminals	27
Time/Channel Display	18, *Q/U-3
Timer (Turn On)	16
VCR Button	28, 41, *Q/U-3
VCR/TV Connections	28-31, 42, 47, *Q/U-1
Tips for Service	48, 49, 52-53
TV Speaker Control	26
Volume Display	25
Warranty	56

^{*} Q/U indicates page number reference in the separate Quick Use Guide

INDEX



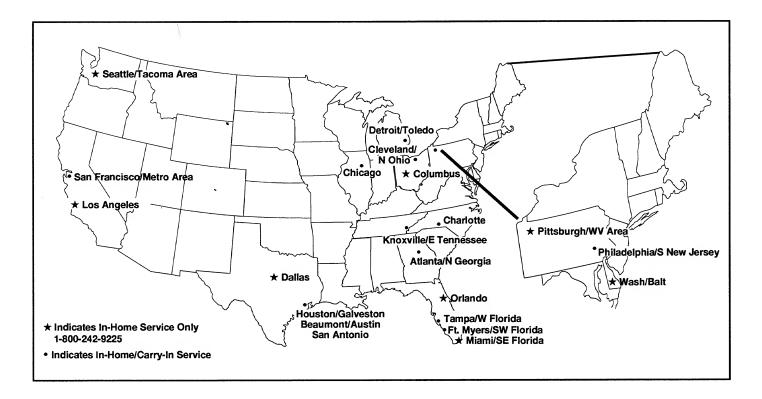
Accessories/Optional10, 26, 27, 28, 42, 47, *Q/U-1	I
Add/Delete Channels13-14, *Q/U-2	I
Advance Buttons*Q/U-2, 4	I
Audio Controls23-27	I
Audio/Video Input28-31, 42, 47, *Q/U-2	I
Automatic Programming13, *Q/U-2	I
Battery Installation*Q/U-3	I
Cable TV Connections/Settings12, 42, 47 *Q/U-1, 2	I
Channel/Time Display19, 22, *Q/U-3	I
Channel Label21	I
Channel Memory13-14, *Q/U-2	5
Channel/Time Reminder18	9
Clock Setting15	9
Clock Timer16	9
Closed Captioning11	9
Color Controls6,*Q/U-4	9
Convergence8	
Controls/TV*Q/U-2, 3, 4	9
Controls/Remote32-41, 44, *Q/U-2, 3, 4	-
Exit*Q/U-4	-
Features5	•
First Time Set Up*Q/U-2	•
Help Menu48, *Q/U-2, 4	,
Inputs/Audio and Video28-31, 42, 47	
Menu*Q/U-2, 4	•
Minus(-)/Plus (+) Buttons*Q/U-3, 4	•
Parental Control19-20	
Picture-In-Picture (PIP)42, 47, *Q/U-2	

PIP Audio Output jacks	26, 43
Picture Source Control	10, 45
Precautions/Safety	2, 3, 49, *Q/U-1
Programming Channels	13, *Q/U-2
Remote Control	32-41, 45, *Q/U-2, 3, 4
Remote with VCRs	36-37, 40, 43
Requesting Service	48, 49, 54-55, 56
RF Coaxial Cable	44, 49, *Q/U-1
Reminder/Time and Channel	18
Remote Locator	32-33
Safety/Precautions	2, 3, 51, *Q/U-1
Second Audio Program (SAP)	24
Sensor Remote	*Q/U-3
Sleep Timer	17
Smart Picture	34-35
Smart Sound	36
Surround Sound	27
Speaker Terminals	27
Time/Channel Display	18, *Q/U-3
Timer (Turn On)	16
VCR Button	28, 43
VCR/TV Connections	28-31, 44, 49, *Q/U-1
Tips for Service	50, 51, 54-55
TV Speaker Control	26
Volume Display	25
Warranty	56

^{*} Q/U indicates page number reference in the separate Quick Use Guide

Philips Consumer Electronics Company

Factory Service Center Locations



NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product

Please contact Philips at

1-800-661-6162 (French speaking)

1-800-363-7278 (English speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile

Veuillez contacter philips á:

1-800-661-6162 (Francophone)

1-800-363-7278

En el Canadá

Cómo recibir servicio efficiente para su producto, en persona, por correo o a domicillo

Favor de comunicarse con Philips al:

1-800-661-6162 (francófono)

1-800-363-7278 (anglófono)

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LIMITED WARRANTY

PROJECTION TELEVISION

One Year Free Labor

One Year Free Service on Parts

Two Years Free Service on Cathode Ray Tube Parts / 30 days Free Service on Projection TV Screen
This product can be repaired in-home.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. for one year thereafter (30 days for the projection TV screen), all parts will be repaired or replaced, and labor and transportation are free. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the cathode ray tube and the "Clear-Vu" lens, and for all labor and transportation charges. After two years from the day of purchase, you pay for the replacement or repair of all parts except the "Clear-Vu" lens (which is guaranteed against manufacturer's defects for the life of the product), and for all labor and transportation charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE...

Repair must be performed by an authorized service center or a factory service center. If you do not live near a factory service center, contact your dealer. If your dealer is an authorized service center, he will arrange repair. If your dealer is not an authorized service center, he will direct you to the authorized service center engaged by him to service the products he sells.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

IF YOU HAVE QUESTIONS...

Please contact Philips at:

I-800-661-6162 (French Speaking) I-800-363-7278 (English Speaking)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL#	
SERIAL#	

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Service Company, P.O. Box 555, Jefferson City, Tennessee 37760, (423) 475-8869